Birla Institute of Technology & Science (BITS), Pilani
Practice School Division
Practice School-I course (May 26th – July 19th, 2025)

PS Chronicles (Core Engineering – Cement, Steel, Chemical, Civil, Mechanical & others)

(A compilation of student experience during PS-I)

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From the Desk of the Editor

It is my great pleasure to bring forth the 7th edition of the PS-I Chronicles. This edition features over 950 articles from PS-I students sharing their experiences during summer 2025.

The basic premise behind the release of PS-I Chronicles is to document the PS-I learning experience of students keeping the below objectives in view.

- To provide more information on the learning experiences by immediate senior students and PS-I faculty about stations, and thereby enlightening the learning opportunity among the student community.
- To provide the faculty with the enhanced information about the type and nature of work carried out at the organization.
- To transform the knowledge gained at the organization into class room teaching and also to identify the scope of deepening the collaborations with organization.

The articles have been classified into five categories based on the industry domain.

- Chronicle 1: Information Technology
- Chronicle 2: Electronics
- Chronicle 3: Chemical, Mechanical, Cement, Textile, Steel, Infrastructure
- Chronicle 4; Health Care and other
- Chronicle 5: Finance and Management

I would like to thank students for sharing their experiences during their stint at the organization. I would also like to thank the entire PSD team members for reviewing the articles and providing us the valuable feedback. I would also like to extend our sincere thanks to Mr. Om Prakash Singh Shekhawat, Ms. Ankita Duggal, Mr. Shyam Sunder Saini and Mr. Varun Singh of the Practice School Division, of BITS Pilani, Pilani Campus, Pilani for their help in bringing out this edition of PS-I Chronicles.

I would be happy to receive any feedback regarding the Chronicles. Please feel free to email me at psd@pilani.bits-pilani.ac.in or at murugesan@pilani.bits-pilani.ac.in.

The Associate Dean,
PSD Pilani.

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PS-I station: Amritatva Food Pvt. Ltd, Jaipur

Student

Name: ARYAN TRIPATHI .(2023B2A30926H)

Student Write-up:

PS-I Project Title: Implementation of Website Analytics & SEO Infrastructure

Short Summary of work done: At Amritatva, I worked on improving the company's website by focusing on both how it performs and how easy it is to use. Early on, I helped set up systems to track how visitors interact with the site and understand how it's doing on search engines. I also checked how the site performs on mobile and supported content and outreach efforts. In the later part of the internship, I focused more on the website's structure and design. I cleaned up unused features, improved the menu and layout, and made sure everything looked and worked well—especially on phones. I also tested forms, buttons, and links to ensure a smooth experience. Overall, this internship gave me hands-on experience in understanding how websites work behind the scenes and how small improvements can make a big impact on the user experience.

Objectives of the project: To implement analytical tools for the company's website to track user interaction and site reachability, and to optimise the site for better performance

Tool used: Google Analytics 4, Tag Manager, Search Console, NitroPack, Google PageSpeed Insights, Lighthouse Audit, WordPress

Details of Papers/patents: None

Brief description of the working environment: The working environment was very good, the co-founders never pestered us with work and we had choice in choosing projects and deadlines. The expectations were also easily achievable and I learned a lot during this internship. I learned how to enhance brand visibility and reach of a growing startup and also learnt how to analyse the user performance and other metrics of a brand's website to further its growth

Academic courses relevant to the project: yes

Learning Outcome: I learned how to use and link tools like Google Analytics, Search Console and Lighthouse Audit and also learned how to clean the frontend of the site on WordPress to make it faster and more user-friendly

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PS-I station: Anushka Jobtech Pvt. Ltd- Tech, Pune

Student

Name: KESHAV JOHRI .(2023A3PS0382P)

Student Write-up:

PS-I Project Title: AI Powered Candidate Persona Matcher

Short Summary of work done: Engineered an NLP engine with sentence-transformers to semantically score resumes against job listings. Designed a weighted algorithm fusing NLP scores with a logarithm-based analysis of GitHub activity

Objectives of the project: Development of a working prototype that simulates intelligent job matching.

Tool used: sentence-transformers, numpy

Details of Papers/patents: NA

Brief description of the working environment: The overall working environment was extremely freeing and we were given complete and absolute control over our approach to solve the problem. All the company expected from us was a working prototype by the end of the PS

Academic courses relevant to the project: Machine Learning, Deep Learning, Artificial Intelligence, Introduction to Large Language Models

Learning Outcome: Artificial Intelligence, Machine Learning, Natural Language Processing and Transformers

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PS-I station: Anushka Jobtech Pvt. Ltd- Tech, Pune

Student

Name: PURVA RATHI .(2023A7PS1159H)

Student Write-up:

PS-I Project Title: AI Powered Candidate Persona Matcher

Short Summary of work done: My PS 1 was in online mode. We were 6 students working on the project. In the first meet we were allowed to chose the project so we all chose the same project. I was the part of frontend team for this project. I had to create a input form for candidates. We also made few changes in the company website to make it more organized and appealing.

Objectives of the project: To create a working prototype that simulates intelligent job matching

Tool used: Wix Studio and Velo through Java Script

Details of Papers/patents: -

Brief description of the working environment: Work Environment was fine.
Academic courses relevant to the project: -

Learning Outcome: Develop a new skill, Java Script and wokring in a low code / no code environment

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PS-I station: Anushka Jobtech Pvt. Ltd- Tech, Pune

Student

Name: PRATEEK PANJIKAR(2023B5AA0976G)

Student Write-up:

PS-I Project Title: AI powered employer branding platform that connects candidate personas with ideal workplaces through culture first storytelling and intelligent job discovery

Short Summary of work done: We developed the backend and the frontend for the anushka jobtech website and made major changes for smoother working of website.

Objectives of the project: Employer branding through media.

Tool used: Python, wix studio

Details of Papers/patents: None

Brief description of the working environment: It was normal.

Academic courses relevant to the project: yes

Learning Outcome: Wix studio

PS-I station: Astratmutual-Non Tech, Mumbai

Student

Name: SHIVANSH TIWARI(2023A1PS0090G)

Student Write-up:

PS-I Project Title: Pitch Deck, Incubation Programs and Newsletter

Short Summary of work done: During my Practice School-I internship at AstratMutual Pvt. Ltd., I worked on SimpliMF, a B2B2C fintech platform designed for Mutual Fund Distributors (MFDs) and self-directed investors. My primary responsibility was to develop a complete, investor-ready pitch deck that effectively communicated the product's vision, market opportunity, business model, and financials. The deck was iteratively refined based on feedback from

company leadership and aligned with both investor and incubator expectations. The final version was handed off to the design team for visual refinement. In addition to the pitch deck, I collaborated with my co-intern to identify and evaluate over 50 relevant incubation programmes. This involved analyzing each programme's eligibility, application requirements, and timelines, resulting in a structured reference database for the company's future use. The third aspect of the project involved exploring strategies for streamlining investor newsletters. Although this segment remained partially incomplete due to time constraints, we proposed initial content structure ideas and engagement strategies to guide future implementation. Overall, the internship offered practical exposure to product positioning, startup communication, and strategic research, providing valuable insights into how fintech startups prepare for scale and investor engagement.

Objectives of the project: The primary objective of the project was to develop a comprehensive, investor-ready pitch deck for SimpliMF, aligned with startup funding norms and incubation programme expectations. This included articulating the product's vision, market opportunity, business model, and financial projections. Alongside the pitch development, the project involved researching and shortlisting relevant incubation programmes by evaluating their eligibility criteria and application requirements. Additionally, the project aimed to propose a preliminary strategy for streamlining investor newsletters, focused on improving user engagement and communication clarity.

Tool used: The project was executed using a personal laptop and standard online collaboration tools. Canva and Google Slides were used for pitch deck design, while Google Docs and Notion supported content planning. Market research was conducted using data from AMFI, Tracxn, CB Insights, and CafeMutual. Communication and coordination were handled through WhatsApp, Google Meet, and Slack. No additional hardware tools were required.

Details of Papers/patents: None.

Brief description of the working environment: The working environment at AstratMutual Pvt. Ltd. was dynamic, collaborative, and highly learning-oriented. As a young fintech startup, the company encouraged ownership and initiative, allowing interns to take charge of key deliverables while being supported by experienced mentors. I worked closely with the product team and interacted regularly with the founder's office, receiving constructive feedback from my mentor, Mr. Shreyaan Sharma, and other team members like Ms. Purvai Mishra. This fostered an environment of continuous iteration and learning.

The expectations from the company were clear as they wanted us to develop a high-quality, investor-ready pitch deck that effectively conveyed the product vision, market positioning, and strategic roadmap. In addition, I was expected to contribute to research efforts related to startup incubation programmes and assist in shaping early ideas for SimpliMF's newsletter strategy. The company valued detail-oriented work, independent thinking, and clarity in communication.

During the course of the internship, I gained hands-on experience in product storytelling, market research, financial modeling, and investor communication. I learned how to synthesize

complex product information into a structured narrative, how startups approach funding and incubation, and how strategic planning aligns with product development. The experience gave me a strong understanding of how fintech startups function and grow in real-world conditions and significantly improved my skills in research, design, and strategic thinking.

Academic courses relevant to the project: It was a consulting/product management related internship.

Learning Outcome: This internship provided me with a deep understanding of how early-stage fintech products are positioned and packaged for investors and incubators. I learned how to translate a product's core value into a compelling narrative through structured storytelling, visual design, and data-backed insights. The process of conducting TAM/SAM/SOM analysis, competitor benchmarking, and researching user behavior helped me build a more strategic approach to market research. I also gained exposure to the dynamics of startup fundraising and incubation pipelines, along with practical experience in collaborating with cross-functional teams and responding to real-world feedback. Additionally, the experience sharpened my skills in product thinking, research synthesis, and communication design which was all within the fast-paced, iterative environment of a growth-focused startup.

PS-I station: Astratmutual-Non Tech, Mumbai

Student

Name: ANN MARY BOSE .(2023A2PS0898H)

Student Write-up:

PS-I Project Title: Calculator module -Tech

Short Summary of work done: The company Astratmutual is a SaaS company. This company provides services for mutual funds distributors to engane with their clients online. My project was front end development of mutual fund calculators. Development of four calculators were completed by the end of PS.

Objectives of the project: Assist tech POC in development of calculator module, coordinate with product to ensure complete delivery as per requirements

Tool used: Vs code,figma,notion

Details of Papers/patents: -

Brief description of the working environment: The mode of working was online.The working environment was upto the mark. A clear idea of front end development was acquired, especially how a tech and an product team associates to execute a product into live.

Academic courses relevant to the project: Computer programming

Learning Outcome: Front end development, professional communication skills,team work

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PS-I station: Astratmutual-Non Tech, Mumbai

Student

Name: TARUN PRATAP SINGH(2023A3PS0517G)

Student Write-up:

PS-I Project Title: incubator programmes,buid a pitch deck,newsletter

Short Summary of work done: 51 incubator programs,common requirements sheet

Objectives of the project: to find incubator programs for the company

Tool used: NA

Details of Papers/patents: NA

Brief description of the working environment: All good

Academic courses relevant to the project: NA

Learning Outcome: How startup funding ecosystem works

PS-I station: Astratmutual-Non Tech, Mumbai

Student

Name: IRA KULKARNI .(2023A4PS1290H)

Student Write-up:

PS-I Project Title: Calculator Module- Product

Short Summary of work done: I worked on developing a calculator module, contributing across key areas of product development. My work included preparing spec sheets for clear requirements, designing user workflows for smooth interactions, implementing financial math models for accurate calculations, and contributing to the UI design for a simple, user-friendly experience. This project gave me practical exposure to combining technical precision with design thinking and strengthened my understanding of building scalable, user-focused products.

Objectives of the project: Designing, developing and testing mutual fund calculators

Tool used: S/w- Figma, Notion

Details of Papers/patents: N/A

Brief description of the working environment: At AstratMutual, the work environment was highly supportive and collaborative. Mentors and colleagues were always approachable and willing to guide me whenever needed. Every task was explained clearly, ensuring I had a proper understanding before starting. Adequate time was provided to complete assignments without unnecessary pressure, which encouraged both learning and quality output. Regular reviews and constructive feedback helped me improve my work continuously. Prompt responses to queries and constant support from the team created a positive environment where I could learn, contribute, and grow effectively throughout my time at the startup.

Academic courses relevant to the project: Fundamentals of finance and accounting, Derivative Risk Management, Financial Management, Principals of Economics

Learning Outcome: Working of Mutual Funds, Financial math modelling, product management, UI/UX design

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PS-I station: Astratmutual-Non Tech, Mumbai

Student

Name: AMATULLA JALIWALA .(2023A8PS0425H)

Student Write-up:

PS-I Project Title: Social media growth and hacking

Short Summary of work done: During my summer internship at Astrat Mutual, I contributed to building the company's social media presence from the ground up. I proposed initial platform strategies and helped identify tools for setting up accounts across various social platforms. Our team focused on content marketing by creating and organizing a series of blogs, which we managed and archived using Notion. I also actively worked on enhancing the visual appeal of our content by designing promotional posters and visuals through Canva. This experience not only strengthened my understanding of social media strategy but also helped me develop practical skills in content creation, team collaboration, and digital organization tools like Canva and Notion.

Objectives of the project: To create a strong social media profile for the company

Tool used: Canva

Details of Papers/patents: -

Brief description of the working environment: During my online internship (PS-I), I had a highly enriching experience that offered both professional and personal growth. The working environment was structured yet flexible, allowing us to take ownership of our tasks while receiving timely guidance from our mentors. Despite being virtual, the communication within the team was seamless, thanks to regular check-ins, collaborative tools, and an open, approachable culture.

Academic courses relevant to the project: - yes

Learning Outcome: Learned a lot about various social media platforms and content creation

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PS-I station: Astratmutual-Non Tech, Mumbai

Student

Name: VIDIT BHANSALI(2023AAPS0147G)

Student Write-up:

PS-I Project Title: Calculator module - Product

Short Summary of work done: My project was to make mutual fund calculators on various types of investment types and schemes. First step was to create a specs table for a particular calculator from references of our competitors. Second step was to make a user flow chart showing the working of the website and the input output screens and fields. Third thing was to create a frontend design based on the workflow and the sheet on figma with multiple input/output screens, graphs and tables . Fourth thing was to find relevant formulas for the calculation and make a list of it so that it can be used easily everywhere else. Final thing was to sit with the tech team and explain the calculator so that they can easily make the code for it. Post that we tested the product with different values and edge cases.

Objectives of the project: Creating various mutual fund calculators to make the website Simpli mf

Tool used: Notion, Figma

Details of Papers/patents: NA

Brief description of the working environment: The environment was good and all the employees were super supportive
They encouraged and helped in every step and gave us time to complete the work without burdening us.

Overall the expectations of us learning product management was met along with us learning about other things along the way as well

Academic courses relevant to the project: Finance courses

Learning Outcome: Learnt about frontend ui/ux and various kinds of mutual funds

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PS-I station: Astratmutual-Non Tech, Mumbai

Student

Name: SOHAM DAS(2023B2AA0733G)

Student Write-up:

PS-I Project Title: Calculator module tech

Short Summary of work done: I contributed to the development of a suite of mutual fund calculators designed to assist distributors and investors in goal-based financial planning. The project began with intensive onboarding focused on mutual fund fundamentals, investment flows, and user personas, followed by structured technical upskilling in React, TypeScript, SCSS, and Next.js. I collaborated closely with the product and design teams to understand calculator requirements, participated in logic formulation, and helped build reusable templates to streamline UI consistency. Over the next several weeks, I developed four fully functional calculators: Future Value of Limited-period SIP, Lumpsum Required for Target Future Value, SIP + Lumpsum Required for Target, and a Lumpsum Investment Ready Reckoner. These tools handled multi-scenario projections, dynamic user inputs, and real-time graphical representations. I faced and overcame multiple challenges in implementing step-up logic, reverse compounding, and interdependent calculations. I also contributed to testing, validation, bug fixing, and responsive design refinements. In parallel, I collaborated with the BSE API integration team to support frontend updates for live data inputs. My responsibilities extended from writing helper functions and managing input state to refining UI/UX and documenting logic flows. By the end of the internship, I had gained substantial practical experience in building user-focused financial tools, bridging design and logic, and understanding the role of product consistency in fintech ecosystems. This experience strengthened my technical, collaborative, and problem-solving skills in a real-world product environment.

Objectives of the project: To research, design and develop calculators for MFDs.

Tool used: Nextjs, scss, LLMs, Figma

Details of Papers/patents: -

Brief description of the working environment: Great working environment, the senior management and developers are really skilled and kind. They were always pushing us to do better.

Academic courses relevant to the project: OOPS

Learning Outcome: Web development, figma, mutual funds.

PS-I station: Astratmutual-Non Tech, Mumbai

Student

Name: AAYUSH RAI .(2023B3AA0541H)

Student Write-up:

PS-I Project Title: BSE API Integration

Short Summary of work done: During my Practice School-I (PS-I) at Astrat Mutual, I worked on enhancing the technical infrastructure of a mutual fund distribution platform by replacing Cybrilla's legacy system with BSE STAR MF API integration. My responsibilities involved understanding the BSE API documentation, mapping variables between Cybrilla and BSE's ecosystem, and performing API testing using Postman to ensure accurate transaction and portfolio data retrieval. I also contributed to the parsing of CAMS Mailback reports (WBR1, WBR2, WBR22, WBR39) using Python and pandas to extract investor-level insights such as Holdings, Capital Gains, and XIRR. Additionally, I helped prepare a pitch deck for SimpliMF — a mutual fund platform designed to serve both direct investors and mutual fund distributors (MFDs). This included conducting market research, identifying gaps in current solutions, analyzing competitors, defining our value proposition, and outlining GTM and pricing strategies.

The experience strengthened my technical, analytical, and communication skills. I learned to work collaboratively with a partner and present findings to mentors and supervisors. This internship also gave me valuable exposure to real-world applications of financial APIs, data transformation, and fintech product development.

Objectives of the project: Integrate BSE API into the website replacing existing integration with third party service provider Cybrilla

Tool used: Software Tools: Postman (API testing and validation) Python (Data parsing and transformation) pandas (CSV and report data processing) Microsoft Excel (data mapping and analysis) Figma (workflow diagrams and pitch deck design) PowerPoint (presentation and documentation) APIs & Data Sources: BSE STAR MF API CAMS Mailback Reports (WBR1, WBR2, WBR22, WBR39) Cybrilla API (legacy system for reference) Hardware Tools: Standard workstation/laptop (for software development and testing)

Details of Papers/patents: None

Brief description of the working environment: The working environment at Astrat Mutual was collaborative, flexible, and growth-oriented. As a startup in the fintech domain, the company provided a dynamic space where innovation and ownership were encouraged. Our team communicated primarily through online channels, with weekly sync-ups and daily check-ins for status updates and guidance. Despite being remote, there was constant support and mentorship from both the organization and faculty.

The company expected us to approach challenges independently, take initiative in exploring technical documentation, and contribute actively to real product development. We were trusted with critical tasks like mapping Cybrilla's legacy system to the new BSE STAR MF API and evaluating the CAMS Mailback system as a fallback data source. This real-world responsibility gave us direct insight into how fintech products operate, especially those catering to mutual fund distributors (MFDs) and investors.

Our learning curve was steep, particularly in understanding mutual fund reporting, API integration, data structuring, and parsing structured reports using Python. We also engaged in research for SimpliMF's market positioning and participated in creating a detailed pitch deck for investors and MFDs, covering aspects like TAM, competitive analysis, GTM strategy, and product features.

Overall, the internship helped develop both our technical and business communication skills. It offered hands-on exposure to APIs, data transformation, product thinking, and collaborative teamwork—key skills for any aspiring software developer or product analyst in the fintech space.

Academic courses relevant to the project: None very relevant but some helped a bit like Derivatives and Risk Management, Fundamentals of Financial Accounting and Principles of Economics

Learning Outcome: 1. Learned BSE STAR MF API integration and mutual fund data handling.
2. Gained proficiency in Python for parsing CAMS Mailback reports.
3. Understood investor and distributor reporting needs (Holdings, XIRR, Capital Gains).
4. Improved skills in API testing with Postman and real-world debugging.
5. Contributed to SimpliMF pitch deck with market research and GTM strategy.
6. Enhanced teamwork and communication in a professional setting.

PS-I station: Astratmutual-Non Tech, Mumbai

Student

Name: GOVIND BHAGERIA .(2023B5A31149P)

Student Write-up:

PS-I Project Title: Social media content + Growth hacking

Short Summary of work done: Industry Understanding By researching mutual fund distributors, I got a clear picture of how the industry operates, the common pain points of distributors, and what kind of communication they relate to. I also understood the regulatory structure and how different players are positioned in the market. Competitor Analysis Studying competitors helped me understand what kind of content works in this domain. I was able to identify gaps and opportunities in their strategies which helped in shaping our own content approach. It also gave me ideas for differentiating our brand voice. Content Planning and Strategy I learned how to create content buckets that align with the company's purpose and audience needs. This made me realize the importance of balancing educational, promotional, and engagement-driven content. Creating a structured posting schedule taught me how consistency helps build credibility. Brand Voice and Messaging Understanding the tone of the brand helped me write in a way that connects better with the audience. I now understand the importance of keeping the language simple, relatable, and jargon-free—especially when dealing with financial topics. Design and Visual Communication While preparing posts on Canva, I got hands-on experience in designing social media creatives. I learned how to keep visuals clean, brand-aligned, and informative without overwhelming the audience. Platform-Specific Growth Strategies Creating tailored strategies for LinkedIn and Facebook taught me how different platforms require different types of content and engagement tactics. I also learned how to plan growth activities like joining relevant groups, using hashtags, and encouraging comments and shares. Blog

Writing and SEO Basics Writing blogs helped me improve my research and writing skills. I also understood the importance of using simple language while still making content informative and valuable. It was also an introduction to structuring content for readability and engagement.

Objectives of the project: To increase digital presence of company

Tool used: Canva, LinkedIn

Details of Papers/patents: no

Brief description of the working environment: My overall experience during the PS-I project was highly satisfying and enriching. The project gave me a chance to apply my academic knowledge in a real-world setting and understand the practical aspects of content strategy, digital communication, and the mutual fund distribution industry.

Academic courses relevant to the project: Principles of Management, Business Communication

Learning Outcome: Understanding of Mutual Fund Industry:
Basics of mutual funds, types, and structures
Regulatory framework (SEBI, AMFI guidelines)
Role and responsibilities of Mutual Fund Distributors (MFDs)
Key concepts like ARN, EUIN, and NISM certification
Digital Marketing Fundamentals:
Social media growth strategies for platforms like LinkedIn and Facebook
Content creation and marketing techniques
Scheduling and planning posts for brand engagement
SEO basics and keyword targeting for blog content
Content Strategy and Branding:
Designing content buckets aligned with the brand tone
Analysing competitors to identify content gaps and opportunities
Writing blogs tailored to specific target audiences
Understanding and applying brand voice consistently
Research and Analysis Skills:
Competitor analysis in the financial services sector
Trend mapping and identifying best practices in the domain
Structuring findings into actionable insights
Design and Visual Communication:
Using Canva for professional post creation
Designing visually appealing marketing material

PS-I station: Avidia Labs - Non Tech, Bengaluru

Student

Name: AARUSH BHARGAV MAHESH .(2023A4PS0036P)

Student Write-up:

PS-I Project Title: Digital Marketing

Short Summary of work done: Worked with CRM Strategies, Designing marketing materials and creating database

Objectives of the project: Digital Marketing

Tool used: Canva, Kit

Details of Papers/patents: None

Brief description of the working environment: Extremely conducive to learning, mentor was very helpful.

Academic courses relevant to the project: yes

Learning Outcome: Digital Marketing

PS-I station: Avidia Labs - Non Tech, Bengaluru

Student

Name: NANDITHA KILARI .(2023B1A30855H)

Student Write-up:

PS-I Project Title: Digital Marketing/ Lead generation

Short Summary of work done: Firstly as a team we created a Data base of schools across Rajasthan and Banglore, cretaed posters using canva for advertising the summer camp programme for 3 days , learnt about different CRM and mailing tools to design Email templates and shoot these mails across schools and get the feedback.

Objectives of the project: To make usage of various tools like Email marketing tools ,CRM tools , Canva to actively design marketing collateral and publisise in order to see the product

Tool used: Canva, Convertkit, Excel,mailerlite

Details of Papers/patents: -

Brief description of the working environment: Initially our mentor Ajith kohir was very welcoming and was very active in terms of giving work and clarifying things.

Academic courses relevant to the project: yes

Learning Outcome: Various Digital markrting tools and thier usage ,applictaion of CRM tools and Email Marketing tools

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PS-I station: Avidia Labs - Non Tech, Bengaluru

Student

Name: ARYAN CHAWLA .(2023B3A70518H)

Student Write-up:

PS-I Project Title: Content curation

Short Summary of work done: We were assigned to make and find 3D models which can be used on their product line QwikXR which can be used to make various forms of simulations mainly based for education purposes.

Objectives of the project: Creating

Tool used: Blender, Photoshop, Canva

Details of Papers/patents: NA

Brief description of the working environment: It was an online PS with mentors giving proper feedbacks suggestions on how to use various tools. We had realistic progression of workload and also we were given realistic deadlines. They were quite aware that it was our first experience working in a corporate and they made sure that the deadlines and workload is not to difficult to fulfill.

Academic courses relevant to the project: NA

Learning Outcome: Blender, prompt engineering, photoshop, canva and various other soft skills.

PS-I station: Bid Alert - IT - Online, Guntur

Student

Name: PEKETI SAI MANOJ .(2023A3PS0325H)

Student Write-up:

PS-I Project Title: Tenders Made Smarter: Building BidGPT and Optimizing Bid Alert for the Future

Short Summary of work done: In the initial week, I worked on RAG chatbot. Later weeks, SEO and UI UX work was done.

Objectives of the project: Enchancing the website, bidalert.in by adding ai tools and other modern elements

Tool used: Flask, LangChain, ChromaDB, HTML, CSS, JavaScript

Details of Papers/patents: NA

Brief description of the working environment: Good work environment.
Academic courses relevant to the project: Machine Learning, Software Engineering, Deep Learning

Learning Outcome: Web Development, RAG, LLMs, web hosting,

PS-I station: Bid Alert - IT - Online, Guntur

Student

Name: MANAS DANGAYACH .(2023A3PS0340P)

Student Write-up:

PS-I Project Title: Web Dev

Short Summary of work done: During my web development internship, I worked on several impactful projects. One of my primary contributions was developing an AI-based scrutinizing tool, which helped automate the review and assessment of documents, improving overall efficiency. I also implemented pagination features in web applications to enhance data navigation and user experience when dealing with large sets of information. Additionally, I integrated multilingual support using both Weglot and GTranslate plugins, enabling seamless translation across the company's web platforms. I was also responsible for translating the bid summarizer tool, ensuring its accessibility for users in multiple languages. These tasks allowed me to apply and expand my skills in web technologies while contributing directly to real-world projects that improved functionality and accessibility for a diverse user base.

Objectives of the project: The main objective of my web development internship was to gain practical experience by actively contributing to the design and development of company websites and web applications. My responsibilities included building specific sections of a web-based application for tender document management and adding advanced functionalities, such as multilingual support using tools like Weglot, to make the platform more accessible. Through

these tasks, I was expected to apply theoretical knowledge, address real-world technical challenges, and deliver solutions that met genuine business needs.

Tool used: Wordpress, Visual Studio Code, DBMS, Python.

Details of Papers/patents: none

Brief description of the working environment: The working environment was collaborative, with a blend of guidance and independence. I routinely interacted with developers, designers, and project managers, who offered mentorship while encouraging self-initiated problem-solving. The company valued a proactive approach to learning, adaptability when using new tools and frameworks, and the ability to communicate clearly both in meetings and written documentation. I was given meaningful responsibilities and my contributions directly impacted ongoing company projects, creating a supportive yet challenging atmosphere that facilitated both professional and personal growth.

Academic courses relevant to the project: Computer Programming

Learning Outcome: During my internship, I developed strong skills in essential web technologies, including HTML, CSS, JavaScript, and WordPress. I learned to identify and resolve website issues such as broken links and URL redirects, and I understood the importance of integrating SEO-friendly features to enhance online visibility. Working on both frontend and backend tasks improved my coding efficiency, problem-solving ability, and understanding of web security fundamentals. This experience also taught me effective time management and significantly boosted my confidence in developing web solutions.

PS-I station: Bid Alert - IT - Online, Guntur

Student

Name: K S RAJEEV KASYAP KRISTIPATI .(2023A3PS0368H)

Student Write-up:

PS-I Project Title: AI-BASED TENDER INTELLIGENCE SYSTEMS AND FRONTEND- BACKEND INTEGRATION FOR BIDALERT.IN

Short Summary of work done: This project involved the development of AI-driven tools, frontend enhancements, and platform-wide improvements for BidAlert.in. work focused on three key areas: Our developing AI tools (BidGPT and Bid Analyzer), enhancing the website frontend, and improving platform functionality like security, SEO, and multilingual support. We developed BidGPT, a conversational RAG assistant using LangChain and LLaMA 3.1, and the Bid Analyzer, a document summarization tool using Groq's LLaMA-3 API. Both tools were integrated with translation capabilities. On the frontend, we redesigned key homepage sections for better visual clarity and mobile responsiveness. Further enhancements included improving search functionality by correcting file paths, executing a backlink strategy on Reddit and Quora, conducting a security audit based on OWASP Top 10, and integrating the Weglot plugin for site-wide translation. These contributions modernized the BidAlert platform, making tender data easier to understand, more secure, and accessible to a wider audience.

Objectives of the project: Primarily it was to build and deploy an AI chat bot on their website alongside which we were asked to build a scrutiny tool.

Tool used:

Details of Papers/patents: -

Brief description of the working environment: The company environment was very supportive, and I gained practical knowledge.

Academic courses relevant to the project: AI/ML

Learning Outcome: Learnt basics of ML while building the chatbot and also learnt about wordpress(on which their site is built). Learnt JS and other stuff for frontend.

PS-I station: Bid Alert - IT - Online, Guntur

Student

Name: RAJSHRI RAJKISHORE SINGH(2023A7PS0372G)

Student Write-up:

PS-I Project Title: Web Scraping and Data Automation

Short Summary of work done: At our Practice School-I station, we developed a Python-based web scraping framework to automate the extraction of tender data from global government procurement portals. Using tools like Selenium, BeautifulSoup, and Pandas, we handled challenges such as dynamic loading, CAPTCHA, multilingual content, and geo-restrictions. Extracted data was cleaned and exported into Excel files for efficient analysis. In the later phase, we improved the platform's search visibility through SEO activities like robots.txt optimization, manual sitemap creation, and internal linking. We also enhanced the backend database schema and explored Google Maps API integration for region-based tender tracking. The project offered end-to-end experience in automation, SEO, and backend optimization.

Objectives of the project: The project optimized tender data collection from global portals and boosted search visibility through SEO enhancements and backend improvements.

Tool used: Python3, Selenium, BeautifulSoup, Pandas, DeepL Translator API, ChromeDriver, VS Code, UrbanVPN, ProtonVPN, RankMath Robots.txt Tester, TechnicalSEO Robots.txt Checker, Google Search Console.

Details of Papers/patents: NA

Brief description of the working environment: The working environment of the company was good and highly collaborative.

Academic courses relevant to the project: CP

Learning Outcome: The project provided hands-on experience in web scraping, backend development, and SEO. We built a modular framework using Python, Selenium, and BeautifulSoup to extract structured tender data while handling dynamic content, multilingual sites, and CAPTCHA. Later, the focus shifted to SEO with improvements like robots.txt optimization, sitemap creation, internal linking, and backend schema refinement for expired tenders. Overall, it offered practical insights into automation, data architecture, and search engine optimization.

PS-I station: Bid Alert - IT - Online, Guntur

Student

Name: VRAJ URVISHKUMAR SHAH(2023A7PS0478G)

Student Write-up:

PS-I Project Title: WEB SCRAPING AND SEO IMPROVEMENTS

Short Summary of work done: During my PS-I internship at BidAlert, I worked on developing automated web scraping tools to extract tender information from multiple government procurement websites. I created flexible, modular scripts in Python using Selenium and BeautifulSoup, and enhanced them with pagination logic, browser compatibility (Edge and Firefox), and runtime argument parsing. I also participated in domain-based team tasks and contributed peer reviews on scraping strategies. On the SEO side, I conducted in-depth research on indexing best practices, schema markup, and optimization of robots.txt. I created a comprehensive documentation and implementation checklist which was handed over to the development team. Additionally, I studied how AI tools like ChatGPT Browse and Bing Chat crawl and display website content and proposed structural changes for enhanced AI discoverability. I also contributed to backend planning for user-facing features like automated WhatsApp and email tender alerts. My internship concluded with a presentation summarizing all research, implementations, and future scope. This experience significantly improved my technical, collaborative, and communication skills.

Objectives of the project: Develop and deploy Python-based web scraping tools to automate the extraction of tenders from global government websites. Improve the SEO structure of the BidAlert platform through better indexing, internal linking, and optimized metadata. Enhance the site's visibility and readiness for AI discoverability by structuring content and pages for LLM-based crawlers. Plan and initiate backend structure for automated email and WhatsApp alerts for tender notifications.

Tool used: Languages: Python, HTML, XML, JavaScript Libraries: Selenium, BeautifulSoup, Requests, Pandas, argparse Tools: Google Search Console, Schema Validator, RankMath Robots.txt Tester Browsers: Firefox, Microsoft Edge (via WebDriver) Collab Tools: Google Docs, Sheets, Meet Platforms: WordPress, Government tender portals

Details of Papers/patents: None

Brief description of the working environment: The internship was conducted remotely under a structured and collaborative environment. BidAlert provided a well-defined project scope along with the flexibility to explore different domains like Web Development, Web Scraping, SEO, and Automation. Weekly mentor sessions and peer group discussions helped identify problems and brainstorm potential solutions.

The expectations were clearly set: to build adaptable scraping tools for global tender sites and contribute to the long-term digital visibility of the platform. Regular tasks involved both research-based and hands-on development work. We received mentoring support without micromanagement, which fostered independent problem-solving.
I gained practical experience with scraping tools, SEO practices, and backend planning. The internship enhanced my understanding of how content is indexed by search engines and AI crawlers, and how websites can be structured for better visibility and performance.

Academic courses relevant to the project: Object-Oriented Programming
Data Structures and Algorithms
Web Development
Database Systems

Learning Outcome: Practical experience in developing robust and flexible scraping tools using Selenium, BeautifulSoup, and Requests.
Deep understanding of SEO optimization, indexing behavior, and schema markup for WordPress-based websites.
Hands-on exposure to dynamic website automation, multilingual handling, and crawler compatibility.
Knowledge of structuring websites for both traditional search engines and modern AI discovery tools.
Enhanced communication, collaboration, and documentation skills through presentations and peer discussions.

PS-I station: Bid Alert - IT - Online, Guntur

Student

Name: MOHIT .(2023A7PS0624P)

Student Write-up:

PS-I Project Title: Web development

Short Summary of work done: Built a chatbot and document analyzer

Objectives of the project: Make the website better

Tool used: Wordpress, NLP

Details of Papers/patents: NIL

Brief description of the working environment: It was good and I learnt many new things.

Academic courses relevant to the project: NLP

Learning Outcome: Wordpress

PS-I station: Bid Alert - IT - Online, Guntur

Student

Name: AMEY KULKARNI(2023A7PS1017G)

Student Write-up:

PS-I Project Title: Web Development

Short Summary of work done: - created two ai tools , BidGPT , a chatbot and bidanalyser , a document scrutiny tool. Other small tasks

Objectives of the project: To assist in developing various website components

Tool used: Wordpress mainly

Details of Papers/patents: N/A

Brief description of the working environment: Complete everyday tasks, update the same. Daily meets for an hour.

Academic courses relevant to the project: yes

Learning Outcome: Web dev learnt

PS-I station: Bid Alert - IT - Online, Guntur

Student

Name: DIVYAJOT SINGH .(2023AAPS0253H)

Student Write-up:

PS-I Project Title: Website Development

Short Summary of work done: worked on AI toold for the company, also on improving website functionality and SEO

Objectives of the project: The BidGPT project at BidAlert.in aimed to enhance the platform by integrating an AI-powered chatbot and im proving key frontend and backend components. The chat bot was built using LangChain, Chroma, and LLaMA 3.1, supporting document-aware natural language queries via a retrieval-augmented generation (RAG) pipeline. A custom floating frontend widget was developed in HTML, CSS (Tailwind), and JavaScript, and deployed us ing GitHub-based CI/CD on Render and Railway. Addi tional work included UI redesign, iframe integration with WordPress, SEO enhancements, and cron-based backend fixes. This project offered valuable experience in full-stack web development, LLM integration, and deployment work f lows, directly contributing to the intelligence, responsive ness, and scalability of the BidAlert platform

Tool used: Python, php, HTML, CSS, JS, SEO, Wordpress

Details of Papers/patents: -

Brief description of the working environment: lots of work, daily meets, probably one of the most demanding PS-1.

Academic courses relevant to the project: yes

Learning Outcome: AI, ML, RAG, Web Dev, SEO, wordpress, website functionality

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PS-I station: Bid Alert - IT - Online, Guntur

Student

Name: AAYUSHMAN MODI .(2023AAPS1119H)

Student Write-up:

PS-I Project Title: Web Scraping and Web Development

Short Summary of work done: Firstly, we developed various tools for scraping tender data from websites of different countries. Every country had a different challenge. Some of them were use of vpn's, solving captcha, translation etc. We overcame the challenges that we could. The next part involved email and whatsapp alert automation. It required us to do research and implement the outcomes in our code to improve accuracy of code and give best results.

Objectives of the project: Develop tools to scrape tenders from Websites of different countries and work on them

Tool used: Various python libraries- requests, selenium, deeptranslator, datetime, os, json, pandas, argparse, pywhatkit etc. Groq API, Urban VPN

Details of Papers/patents: NA

Brief description of the working environment: The environment of the company was good. Mentor was somewhere strict but helped whenever needed. Flexible deadlines were implemented so that each one of us could learn at their pace.

Academic courses relevant to the project: NA

Learning Outcome: How to use different python libraries, how to scrape relevant information from websites, how to automate whatsapp alerts

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PS-I station: Bid Alert - IT - Online, Guntur

Student

Name: SIDDHARTH DAMLE(2023B3A70788G)

Student Write-up:

PS-I Project Title: Web scraping

Short Summary of work done: We made over 30 web scraping tools for government tender website. For the code we used python with libraries selenium, pandas, requests, argparse, etc.

Objectives of the project: Create web scraping tools for government tender websites

Tool used: Python, selenium, pandas, requests

Details of Papers/patents: None

Brief description of the working environment: We had daily meetings. Had a good time.

Academic courses relevant to the project: Cp

Learning Outcome: Learned how to use selenium, requests, pandas and other libraries for web automation.

PS-I station: Bid Alert - IT - Online, Guntur

Student

Name: VIBHOR JAIN .(2023B3A81000P)

Student Write-up:

PS-I Project Title: Entrepreneurship

Short Summary of work done: I made strategies for collaboration and networking. I learnt how to add products in GeM portal for direct procurement.

Objectives of the project: Creating a small business by learning the bidding process of GeM portal

Tool used: GeM portal

Details of Papers/patents: None

Brief description of the working environment: I really enjoyed my experience here. I learned the importance of professionalism, time management, and responsibility.

Academic courses relevant to the project: yes
Learning Outcome: Learnt how to add products for direct procurement in GeM portal

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PS-I station: Bid Alert - IT - Online, Guntur

Student

Name: JIYA BOTHRA(2023B3AA0843G)

Student Write-up:

PS-I Project Title: Web Scraping and Alert Automation

Short Summary of work done: At my PS-I with Bid Alert in Guntur, I worked on building and optimizing a web scraping pipeline that automatically collects tenders from various government portals. My task was to identify the sources, utilize Selenium to scrape the data, and subsequently clean and put them in order using Pandas. I applied filters to identify tenders

based on relevant keyword input. This treated data was then combined into an alert system that pushed notifications through WhatsApp. I also contributed to enhancing the frequency and consistency of these alerts.

Objectives of the project: The main aim of this project was to computerize the extraction of tender data from government procurement websites. The project sought to automate the collection, cleansing, categorization, and provision of tender data. The project also concentrated on tenders being filtered according to particular sectors, enhancing data relevance, and ensuring timely provision of alerts through email or WhatsApp.

Tool used: The project was developed primarily using Python, with Selenium and pandas. WhatsApp Web was automated using browser scripting.

Details of Papers/patents: no papers were published

Brief description of the working environment: Bid Alert offered a highly collaborative and flexible work environment.

Academic courses relevant to the project: knowledge of python

Learning Outcome: This project enabled me to gain hands-on experience with web scraping and automation tools using Python.

PS-I station: Bid alert - Mgmt - Online, Guntur

Student

Name: VINEETH MOPARTHI .(2023A5PS1019H)

Student Write-up:

PS-I Project Title: Digital marketing

Short Summary of work done: Added 100+ products in GeM portal,researched whatsapp and email marketing tools. Voice over to promotional videos in regional language

Objectives of the project: To understand various promotional methods of marketing in digital(social media) platforms

Tool used: Chrome extensions

Details of Papers/patents: Nothing

Brief description of the working environment: Working environment was online, and quite good. Expected to learn statergies of marketing and their consequences. Company mentors and PS-1 faculty was helpful and the work was medium paced.

Academic courses relevant to the project: Prinicipals of Mangement

Learning Outcome: Promotion of services offered by the company

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PS-I station: Bid alert - Mgmt - Online, Guntur

Student

Name: AKSHAT KUMAR .(2023A5PS1174P)

Student Write-up:

PS-I Project Title: Management

Short Summary of work done: During my PS-I at BidAlert, I worked on content development and branding to improve user engagement and platform visibility. My primary tasks included scripting high-retention Instagram Reels tailored for early-stage entrepreneurs, designing WhatsApp and email marketing campaigns, and crafting concise, persuasive messages to explain BidAlert's core value proposition—using tenders as business leads. I analyzed user behavior on different platforms to align content with audience intent. I also assisted in shaping the brand tone, ensuring consistency across channels. One key project involved building a content framework that mapped types of tenders to relevant small businesses, making BidAlert's offering more actionable and relatable. I collaborated with the design and tech teams to ensure seamless execution of marketing ideas and gave a presentation to the team on how founders can use public procurement as a growth strategy. This internship gave me hands-on

experience in digital marketing, B2B communication, and content-driven growth—all within a fast-moving startup environment.

Objectives of the project: To drive user acquisition and brand recall for BidAlert by creating high-conversion content assets, optimizing multi-channel communication (Instagram, WhatsApp, email), and positioning tenders as actionable business opportunities for early-stage entrepreneurs

Tool used: Canva – for designing visual content and social media creatives • Google Sheets – to manage leads, track outreach, and analyze campaign performance •
WhatsApp Business – for running broadcast campaigns and engaging directly with users
• Mailchimp – to design and send email marketing campaigns •
Instagram Insights – to monitor reel performance, reach, and audience engagement
• Notion – for content planning, documentation, and internal coordination

Details of Papers/patents: None

Brief description of the working environment: The working environment at BidAlert was fast-paced, collaborative, and idea-driven. As a growing startup, it encouraged initiative and valued clear, outcome-oriented contributions. I was expected to deliver content that aligned with user psychology and helped communicate the brand's core value effectively. Regular feedback and open communication with the team helped sharpen my thinking and execution. I learned how to build marketing narratives, adapt content for different platforms, and work with real user data to improve reach and relevance—all while understanding how startups operate under tight timelines and high impact goal

Academic courses relevant to the project: POE and PAVA

Learning Outcome: Gained hands-on experience in growth-focused content strategy, real-time audience targeting, and data-backed communication design—bridging marketing theory with execution across B2B channels.

PS-I station: Bid alert - Mgmt - Online, Guntur

Student

Name: PARTH KAPOOR .(2023A5PS1209P)

Student Write-up:

PS-I Project Title: Data analytics,Market research and digital marketing

Short Summary of work done: It was good overall apart from the core projects I made insta reels from them which enabled me to do my other hobbies such as script writing in my free time.

Objectives of the project: To expand the market reach and visibility of the company, SEO and increased visibility

Tool used: Sql, power-bi

Details of Papers/patents: No

Brief description of the working environment: I had a great learning experience with the company and gained practical exposure to real work environments.

Academic courses relevant to the project: Haven't came across opels

Learning Outcome: Learnt about SEO optimization, market research and Digital marketing

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PS-I station: Bid alert - Mgmt - Online, Guntur

Student

Name: PUSHPITHA VUTUKURI .(2023A7PS0050H)

Student Write-up:

PS-I Project Title: AI-DRIVEN TENDER INTELLIGENCE AND PLATFORM OPTIMIZATION FOR BIDALERT.IN

Short Summary of work done: During my PS-I at BidAlert.in, I focused on enhancing the platform through AI tool development and frontend improvements. I contributed to building AI solutions such as BidGPT, an AI-based tender matching engine, a bid drafting assistant, and Bid Analyzer using LangChain, LLaMA 3.1, and Groq API. On the frontend, I worked on redesigning homepage sections and developing tender-by-sector cards to improve user experience. Additional tasks included fixing search functionality, improving indexing, debugging on live servers, and optimizing SEO—leading to a more accessible and modern tender platform.

Objectives of the project: The primary objective of this project was to enhance BidAlert.in through the development of AI-powered tools such as BidGPT, a tender matching engine, a bid drafting assistant, and a summarization tool to streamline tender-related workflows. Additionally, the project aimed to improve the platform's frontend design for better usability, optimize backend functionality like search and indexing, and implement SEO strategies to increase visibility and user engagement.

Tool used: Software: LangChain, LLaMA 3.1, Groq API, FAISS, ChromaDB, WordPress, Figma, VS Code Plugins/Frameworks: All-in-One SEO, LiteSpeed, Hestia Languages/Technologies: HTML, CSS, JavaScript, Python

Details of Papers/patents: N/A

Brief description of the working environment: BidAlert.in offered a highly supportive and flexible remote working environment. As part of the Web Development Team, I received timely guidance from mentors and had the freedom to explore advanced AI integration and frontend design improvements. Expectations were well-aligned with academic goals, and I was encouraged to think creatively and contribute to real-time challenges. The company provided access to live servers and production-level workflows, which enhanced my practical understanding of debugging, SEO strategy, and collaborative development. I developed a deeper appreciation for the synergy between design and functionality in building scalable and user-centric web platforms.

Academic courses relevant to the project: Database Systems, Data Structures and Algorithms

Learning Outcome: Through this project, I gained hands-on experience in developing and integrating AI tools using LangChain, LLaMA 3.1, and Groq APIs, deepening my understanding of Retrieval-Augmented Generation (RAG). I also learned frontend development best practices including responsive design and UI structuring, along with backend debugging on live server environments like Hestia and LiteSpeed. Additionally, I developed practical skills in SEO optimization, indexing, and working with WordPress-based systems—all while collaborating in a real-world development workflow.

PS-I station: Collegedunia - Non Tech, Gurgaon

Student

Name: VIKASH KUSHWAHA(2023A1PS0123G)

Student Write-up:

PS-I Project Title: HOLISTIC SEO AUDITS, COMPETITOR BENCHMARKING, AND DATA-DRIVEN CONTENT OPTIMIZATION

Short Summary of work done: During my PS-I at Collegedunia, I worked on SEO audits, competitor benchmarking, keyword research, and CMS content structuring. I analyzed and optimized college pages for major institutions like IIT Jammu and AIIMS Delhi, evaluated SEO metrics such as meta tags, headers, and internal links, and suggested improvements to enhance search rankings. I conducted competitor analysis using Similarweb to identify gaps and propose strategic improvements. I was also responsible for compiling ranking data for B.Ed, BCA, Commerce, and Arts colleges using data from India Today, Outlook, and The Week. My keyword research, covering over 800 colleges, informed targeted content planning. Additionally, I managed CMS updates like the "Hide Fees Widget" toggle and added structured silos for entrance exams like MHT CET, KEAM, and TNEA. These contributions collectively enhanced Collegedunia's content clarity, technical SEO, and overall user engagement.

Objectives of the project: To improve the search engine visibility and content quality of Collegedunia's college listing pages through SEO audits, competitor benchmarking, keyword research, and CMS optimization. The project aimed at enhancing user experience, technical site health, and organic reach.

Tool used: Google Analytics, Similarweb , SACP Tool, Collegedunia CMS , Google Sheets & Excel , Google Docs & Slides

Details of Papers/patents: None

Brief description of the working environment: The working environment at Collegedunia was collaborative and fast-paced, with a strong focus on performance and precision. I was expected to deliver SEO audits, conduct research, and manage content updates independently while adhering to deadlines. Mentorship was available whenever required, and the team was receptive to suggestions and data-backed insights. Daily and weekly check-ins ensured task alignment and progress tracking.
During the internship, I was required to report to the office in person every working day. The standard working hours ranged between 8 to 9 hours per day, typically from 10:00 AM to 6:30

PM. This regular office presence allowed me to experience the professional workflow closely, engage in real-time discussions with team members, and collaborate more effectively.
I learned how corporate teams function, how to communicate ideas effectively, and how to iterate based on feedback. The internship enhanced my analytical, documentation, and digital strategy skills. Exposure to real-world SEO practices, competitor benchmarking, keyword research, and web analytics was a major takeaway. This hands-on experience helped bridge the gap between classroom learning and practical application, and significantly improved my readiness for industry roles.

Academic courses relevant to the project: Technical Report Writing
Probability and Statistics

Learning Outcome: Technical SEO concepts like meta tags, crawlability, page speed, and internal linking.
Keyword research and planning using tools like SACP.
Data cleaning, analysis, and ranking generation with Excel and Google Sheets.
Real-world application of UI/UX improvements and bug detection.
Practical understanding of digital marketing workflows
Improved communication and presentation skills.

PS-I station: Collegedunia - Non Tech, Gurgaon

Student

Name: KAMYA SARAOGI .(2023B1A10847P)

Student Write-up:

PS-I Project Title: Structured Research and Educational Content Management: PS at Collegedunia

Short Summary of work done: During my Practice School-I internship at Collegedunia, I was a part of the Content Team, where I contributed to improving the accuracy and quality of content related to Indian colleges, their courses, and entrance examinations. My primary responsibility involved conducting detailed research to verify and update existing data on the platform. A

major portion of my work focused on identifying and removing incorrectly tagged entrance exams from specific courses in Collegedunia's Content Management System (CMS). This required cross-checking information against official college and university websites to ensure only valid exams were listed. In addition to this, I compiled and updated important dates related to various entrance exams, including application deadlines, exam dates, and result announcements. I also worked extensively with Microsoft Excel to manage large datasets, using tools such as VLOOKUP, COUNTIF, and conditional formatting to organize, compare, and validate information. The reports I created helped the Quality Check team review and finalize content updates.

Objectives of the project: The primary objective of this project was to contribute to the accuracy and quality of content on Collegedunia, a leading educational platform, by conducting in-depth research on Indian colleges, their courses, and related entrance examinations. The project aimed to identify and correct inconsistencies in the CMS database, ensure accurate tagging of entrance exams with respective courses, and compile updated information such as exam dates and eligibility criteria. Additionally, the objective was to gain hands-on experience with content management tools, data handling techniques, and research methodologies relevant to the EdTech industry.

Tool used: Hardware: Standard office desktop systems provided by the organization for daily work. Personal laptop for remote tasks and documentation. Software: Microsoft Excel: Used extensively for data organization, comparison, validation, and reporting. Advanced features such as VLOOKUP, COUNTIF, conditional formatting, and data filtering were used to manage large datasets efficiently. Collegedunia CMS (Content Management System): A proprietary web-based platform used for editing, updating, and managing content related to colleges, courses, and entrance exams. Google Sheets: Used for collaborative tasks, data tracking, and communication with the QC and content teams. Web Browsers (Chrome/Edge): Used for research and accessing official college and exam websites. Similarweb: Used to understand website traffic patterns and user engagement metrics.

Details of Papers/patents: None

Brief description of the working environment: During my PS-I internship at Collegedunia, I worked in a professional, collaborative, and learning-oriented environment. The company maintained a structured workflow where each team member had clearly defined tasks and responsibilities. I was part of the Content Team, where guidance was readily available, and open communication was encouraged. Regular check-ins and feedback helped me stay on track and improve my work quality over time.

Collegedunia expected interns to be detail-oriented, proactive, and capable of conducting independent research. Timely submission of assigned tasks and maintaining data accuracy were key performance expectations. The team also emphasized documentation, clear communication, and accountability in delivering content updates.

The internship provided a great platform to bridge classroom learning with real-world applications. I significantly improved my research capabilities by working on live data and

verifying information from official sources. I gained practical experience in content management through hands-on work with the CMS. My proficiency in Excel increased, particularly in using functions like VLOOKUP and COUNTIF for managing large datasets. I also learned how EdTech platforms maintain accuracy and user trust through rigorous content processes.

Overall, the internship enhanced both my technical and soft skills. I learned to work independently, manage time effectively, and collaborate within a content-driven digital workspace. It gave me valuable insight into the working of a professional organization and prepared me for future roles in research, data management, or digital content operations.

Academic courses relevant to the project: Technical Report writing, Cross Cultural Skills

Learning Outcome: Improved Research Proficiency

Gained the ability to conduct structured and accurate research using official college websites, government portals, and trusted educational sources.

Understanding of College Admission Ecosystem

Acquired in-depth knowledge of various entrance exams, eligibility criteria, and course structures across different Indian colleges and universities.

Content Accuracy and Quality Focus

Learned the importance of precision in publicly published data and how it impacts user trust and platform credibility.

Excel Skills and Data Handling

Developed advanced skills in Microsoft Excel, including the use of formulas like VLOOKUP, COUNTIF, and conditional formatting to manage and audit large datasets.

Practical CMS Experience

Gained hands-on experience working with Collegedunia's Content Management System (CMS), understanding how backend content updates affect the front-end user interface.

Analytical and Critical Thinking

Strengthened the ability to identify data inconsistencies, validate information, and make decisions based on logical analysis.

Time Management and Task Prioritization

Learned how to work efficiently under deadlines, manage multiple tasks simultaneously, and deliver high-quality work consistently.

Team Collaboration and Communication

Enhanced interpersonal and communication skills through regular interaction with team leads, editors, and fellow interns.

Digital Awareness and SEO Insight

Understood how content is structured and optimized on educational websites and how user demand influences content priorities.

PS-I station: Collegedunia - Non Tech, Gurgaon

Student

Name: KSHITIJ SAREEN(2023B4A80886G)

Student Write-up:

PS-I Project Title: seo analysis, keyword research, website diagnostics (tasks)

Short Summary of work done: During my Practice School-I at Collegedunia, I engaged in a variety of projects focused on digital content optimization, keyword research, and data-driven ranking systems for Indian colleges. My work involved adding SEO-focused silos such as "Expected Cutoffs" across hundreds of college pages to improve search visibility. I conducted detailed keyword research using Collegedunia's in-house tools like SACP and Google Trends to identify high-traffic primary keywords for specific institutions. Additionally, I played a key role in building ranking frameworks for Architecture, Design, and Fashion colleges in India, drawing from sources like NIRF, India Today, and NAAC data. I used Excel and Google Sheets extensively for data analysis, ranking creation, and tracking keyword performance. I also updated exam dates and deadlines and explored competitor strategies and traffic patterns to inform content improvements. This internship strengthened my analytical thinking, enhanced my understanding of SEO and web content structures, and gave me hands-on experience with real-world digital media practices.

Objectives of the project: seo analysis, keyword research, content optimisation

Tool used: google trends, sacp, google analytics, similar web

Details of Papers/patents: none

Brief description of the working environment: My internship at Collegedunia offered a dynamic and collaborative work environment that fostered continuous learning and encouraged independent thinking. The team was highly approachable and supportive, with mentors providing timely guidance while also giving me the freedom to take ownership of my tasks. The workflow was well-structured, and weekly goals were clearly communicated, ensuring clarity and accountability throughout the internship.
The company expected diligence, attention to detail, and a strong research mindset. Deliverables were time-bound, and a proactive approach was encouraged when solving problems or suggesting improvements. Accuracy, logical structuring of data, and an understanding of user behavior were crucial to all tasks—from adding silos to analyzing search volumes and ranking frameworks.

Academic courses relevant to the project: pom

Learning Outcome: learnt alot about seo, content optimisation, keyword research

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PS-I station: Collegedunia - Tech, Gurgaon

Student

Name: HIMANGI RAJVANSHI .(2023A5PS1188P)

Student Write-up:

PS-I Project Title: Google Analytics Traffic Analysis, Bug Identification and documentation, Competitive Analysis using Similarweb, CMS Operations and Content Auditing, Object Detection using YOLOv8, Custom Tyre Detection Project, Deep Learni

Short Summary of work done: The internship at Collegedunia offered an immersive learning experience combining analytics, product management, and artificial intelligence. The journey began with an in-depth analysis of website traffic using Google Analytics, identifying bounce rates, sessions, and top-performing landing pages. Simultaneously, UI/UX issues across mobile and desktop platforms were documented in detail through a structured bug-reporting format. A strategic competitive analysis using Similarweb was carried out to benchmark Collegedunia's digital footprint against platforms like Shiksha and CollegeDekho. This analysis influenced actionable SEO and design recommendations. Backend operations were explored through CMS workflows, content approval hierarchies, and auditing of outdated pages. In the ML segment, the internship transitioned into practical computer vision projects using YOLOv8 for tyre detection. From collecting and annotating a dataset of 1,500 images in Roboflow to training models on Google Colab, every phase of deep learning model development was undertaken. Further explorations included CNN architectures, Vision Transformers, and real-world applications of OpenAI's CLIP model for tinted window classification.

Objectives of the project: The overarching objective was to bridge academic learning with real-world business applications by deploying modern AI and analytics tools in a production environment. Specific goals included improving user engagement through traffic analysis, identifying and resolving UI/UX bugs, benchmarking competitors for digital strategy insights,

enhancing content quality and SEO alignment, building and training machine learning models for object detection and classification, and exploring LLM capabilities for content summarization and NLP automation.

Tool used: Analytics & QA: Google Analytics, Similarweb, Canva, screenshot tools CMS & SEO: Collegedunia's internal CMS, keyword tracking tools ML & Vision: Roboflow, YOLOv8, OpenCV, PyTorch, TensorFlow, Google Colab, Hugging Face, VS Code NLP & Transformers: SmolLM-1.7B-Instruct, OpenAI CLIP ViT-B/32, Logistic Regression, Python Others: Pandas, Matplotlib, NumPy, Scikit-learn

Details of Papers/patents: not applicable

Brief description of the working environment: The working environment at Collegedunia was collaborative, fast-paced, and intellectually stimulating. Interns were expected to be self-driven, adaptive, and capable of executing tasks with minimal supervision. Regular feedback loops enabled iterative improvements in tasks like content updating, bug tracking, and data analytics. Interns had the freedom to explore new technologies and propose innovative ideas, which fostered creative thinking and ownership.

From the company, it was expected that interns would receive guidance on tool usage, technical mentorship, and constructive feedback. Collegedunia met these expectations by providing access to internal platforms, past data, and supportive team leads. Technical challenges like large dataset handling or model deployment were supported through access to GPU-powered Colab and annotated datasets via Roboflow. The company's openness to experimental AI-based ideas (such as SmolLM summarization or CLIP classification) showed its forward-looking vision.

Looking forward, interns hoped for continued access to datasets for future research, mentorship in publishing ML projects, and opportunities to scale their solutions into production-ready tools. The internship set a strong precedent for a structured, application-driven learning journey that aligns academic knowledge with business impact.

Academic courses relevant to the project: AI/ML related courses.
Probability and Statistics.
Computer Programming.

Learning Outcome: The internship provided hands-on experience in data analytics, bug tracking, backend content workflows, and artificial intelligence. Key learnings included interpreting user behavior through analytics dashboards, documenting bugs in a QA-friendly format, preparing datasets and training deep learning models, applying prompt engineering in LLMs, and using transformer-based models like CLIP and ViT. It also strengthened critical thinking, iterative model development, and strategic decision-making based on data-driven insights.

PS-I station: Collegedunia - Tech, Gurgaon

Student

Name: VIKHYAAT SHARMA .(2023B2A40936P)

Student Write-up:

PS-I Project Title: AI Driven Platform for News Aggregation, Categorisation and Personalised Recommendations

Short Summary of work done: Throughout the 8-week internship at Collegedunia Web Pvt. Ltd., I created an end-to-end AI-driven platform for car content management. The project started with creating an auto-web scraping system utilizing Python libraries (Selenium, BeautifulSoup) to web scrape car news from various sources. I also used a ROBERTa-based classification system with 93% accuracy on 13 predefined categories such as "Just Launched," "Price Update," and "Corporate." The central recommendation engine used TF-IDF vectorization with cosine similarity algorithms to provide relevant articles, with intelligent boosting for same-firm articles. I incorporated the Gemini API for automated content generation, using 80% less human effort through advanced prompt engineering. Among the major milestones was creating a feature categorization system that automatically put car features into six categories (Comfort, Interior, Exterior, Safety, Entertainment, Specifications) with 99% automation. The feature prioritization algorithm sifted through 4.2 million car listings to offer users the most in-demand features. Other achievements involved creating an interlinking matrix based on sentence transformers for semantic comprehension, creating automatic seller descriptions. The project also involved the manual curation of 2000 user reviews and email notification systems with Google Sheets integration for collaborative spaces.

Objectives of the project: The project aimed to develop a comprehensive AI-driven platform for automotive content management, focusing on creating an automated news aggregation system capable of scraping, categorizing, and intelligently distributing automotive content. Key objectives included implementing machine learning models for accurate news classification across thirteen predefined categories, developing TF-IDF and cosine similarity-based recommendation systems for personalized content delivery, integrating generative AI for automated content creation, and enhancing user experience through feature classification and prioritization algorithms that optimize car listing displays for maximum user engagement.

Tool used: Programming Languages: Python; Machine Learning Frameworks: PyTorch, Scikit-learn, Transformers library; Web Scraping: Selenium WebDriver, BeautifulSoup, Requests library; AI Models: ROBERTa, Sentence Transformers, Gemini API; Databases: MongoDB, SQLite, Google Sheets API

Details of Papers/patents: NA

Brief description of the working environment: Collegedunia Web Pvt. Ltd. provided a dynamic startup environment with over 1,000 employees focused on educational technology. The company expected interns to contribute meaningfully to real-world projects, demonstrate technical competency in AI/ML applications, and deliver scalable solutions for the automotive vertical. Key learning highlights included understanding production-level AI system deployment, API integration challenges, and the importance of prompt engineering in generative AI applications. The collaborative environment facilitated knowledge sharing across different domains, from data science to product management.

Academic courses relevant to the project: Database Management Systems
Data Structures and Algorithms
Computer Networks
Machine Learning

Learning Outcome: The internship delivered significant technical proficiency in advanced AI implementations, transformer models for news categorization and mastering large-scale data processing techniques handling 4.2 million car listings. Critical skills were developed in web scraping automation using Python libraries (Selenium, BeautifulSoup), API integration with multiple platforms (Gemini, Google Sheets, MongoDB), and sophisticated prompt engineering for generative AI content creation. The experience provided invaluable exposure to production-level AI system deployment, collaborative development environments, and industry best practices in natural language processing, while demonstrating practical applications of machine learning algorithms in real-world automotive content management scenarios.

PS-I station: Commercial Consultancy Services (Flexsim), Bangalore

Student

Name: SAITEJA LUKKA(2023A4PS0261G)

Student Write-up:

PS-I Project Title: 3D MODEL OF HIGH-PRESSURE DIESEL FACILITY

Short Summary of work done: In our PS-I project, we created a 3D simulation of a diesel tube assembly factory using FlexSim software. The factory had different machines and steps like bending, washing, and packaging. We added real-life conditions like batch processing, operator movement, and machine breakdowns. We used labels and logic to send each part to the correct machine. We also tested what would happen if we added more machines to reduce delays. This helped us find and fix bottlenecks. Overall, we learned how to build a digital model of a factory and improve its performance using simulations.

Objectives of the project: Develop a realistic 3D simulation of the diesel tube assembly line using actual data. Identify bottlenecks and optimize flow through statistical analysis and process modeling. Test "what-if" scenarios to evaluate improvements in batch sizes, shift timings, and resource allocation

Tool used: Software: FlexSim 2025 . Hardware: Standard development laptops with 16GB RAM, Windows OS

Details of Papers/patents: None

Brief description of the working environment: The environment of the work is pretty chill. Mentors helped a lot and it was easily doable project by spending like around 7 or 8 hours per week . Both mentors and Ps faculty are chill and very helpful .Everything went very well, mentors clarified our doubts on weekly basis and monitored the progress of our project. Overall I would say its a great experience working with them .

Academic courses relevant to the project: No academic prerequisites required.

Learning Outcome: Gained hands-on experience in discrete-event simulation using FlexSim.
Understood real-world constraints like batching, operator scheduling, and machine breakdowns.
Learned to analyze performance metrics and optimize production using data-driven insights.

PS-I station: Commercial Consultancy Services (Flexsim), Bangalore

Student

Name: A SYED AATIF(2023A4PS0284G)

Student Write-up:

PS-I Project Title: Lead Time Estimation

Short Summary of work done: Weekly meets for progress check and doubts, license was given for using the software, group task with each group consisting of 8-9 people.Problem statement was given to us on our first meeting and we had to work on it.

Objectives of the project: To find lead time in a manufacturing plant.

Tool used: Flexsim software.

Details of Papers/patents: .

Brief description of the working environment: Weekly meets for progress check and doubts, license was given for using the software, group task with each group consisting of 8-9 people.Problem statement was given to us on our first meeting and we had to work on it.

Academic courses relevant to the project: Yes

Learning Outcome: Flexsim software simulation.

PS-I station: Commercial Consultancy Services (Flexsim), Bangalore

Student

Name: DEBRAJ DEB(2023A4PS0299G)

Student Write-up:

PS-I Project Title: Lead Time Estimation

Short Summary of work done: We were assigned to simulate a production lineup for an aircraft manufacturing company, based on the informations and contraints provided to us. We then had to data like product arrival time, processing time, etc. to the model to make it more realistic.

Objectives of the project: Create a simulation model of the production line for an aircraft manufacturing company and calculate the lead time for the process.

Tool used: Flexsim

Details of Papers/patents: N/A

Brief description of the working environment: The work was absolutely chill. We had one meeting with industry mentor every week, where we discussed the work done during the entire week and whatever difficulties we had during that course and also the work to be done for the next week. The frequency of the meetings might seem too low, but it was exactly the right number required for our project. Apart from that our FIC, Rajan sir also kept a regular check on our work progress.
Academic courses relevant to the project: None of the courses (atleast in my mech. curriculum) was relevant to the project. The Flexsim software was new to almost all of us. But no issues as a tutorial playlist on Flexsim will be shared to you which more than enough for any beginner.

Learning Outcome: How a layout for a manufacturing plant can be simulated using Flexsim.

PS-I station: Commercial Consultancy Services (Flexsim), Bangalore

Student

Name: PRATHAM KAMATH(2023A4PS0323G)

Student Write-up:

PS-I Project Title: Crankshaft

Short Summary of work done: Simulation of crankshaft

Objectives of the project: Simulation

Tool used: Flexsim

Details of Papers/patents: -

Brief description of the working environment: Online

Academic courses relevant to the project: yes

Learning Outcome: Flexsim

PS-I station: Commercial Consultancy Services (Flexsim), Bangalore

Student

Name: KANU TRIPATHI .(2023A4PS0604H)

Student Write-up:

PS-I Project Title: 3D Model of High Pressure Diesel Facility

Short Summary of work done: Developed a basic 3D simulation for a diesel factory floor. Identified bottlenecks in the process and optimised the manufacturing through statistical analysis

Objectives of the project: Process Optimization and 3D Simulation

Tool used: FlexSim software

Details of Papers/patents: None

Brief description of the working environment: Online working environment, very relaxed and almost zero time pressure, company expected weekly meetings and progresses report but not much otherwise. Got to learn about warehouse layouts, process management and Simulation

Academic courses relevant to the project: Manufacturing Processes

Learning Outcome: FlexSim software, Process Optimization, 3D Modelling and Simulation

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PS-I station: Commercial Consultancy Services (Flexsim), Bangalore

Student

Name: HARSHIT SINGH .(2023A4PS0648H)

Student Write-up:

PS-I Project Title: Bottleneck analysis in Injection Assembly System

Short Summary of work done: We were given assembly/production lines of factories and we had to simulate the flow of items and working of machinery. Then using various statistics we had to find potential bottlenecks and suggest ways to improve the production.

Objectives of the project: To find bottlenecks in an Injection Assembly and find optimizations to improve prodcution

Tool used: Flexsim software

Details of Papers/patents: N/A

Brief description of the working environment: We had only one meet of about 15 min in the whole week. We were expected to learn the software on our one. The mentor would help clear our doubts. The work given to us was not very difficult.

Academic courses relevant to the project: Some courses from Manufacturing Engineering.

Learning Outcome: Flexsim software

PS-I station: Commercial Consultancy Services (Flexsim), Bangalore

Student

Name: KARTIK KHARBANDA .(2023A4PS1150H)

Student Write-up:

PS-I Project Title: Lead Time Estimation

Short Summary of work done: We created a simulation model in Flexsim. We had to create a simulation model of aircraft components manufacturing. Using that model, we had to find the resource utilization of components like processors, combiners, operators and transporters. We also found the lead time which is the time difference between the order entry time and the order delivered time. We also added machine breakdown to brisge the gap between simulation and reality.

Objectives of the project: The objective is to find the lead time to satisfy each order and the utilization of resources.

Tool used: Flexsim

Details of Papers/patents: The paper is about comparing lead times between two models. The first model is an ideal scenario whereas in the second model, machine breakdown is added to bridge the gap between simulation and reality.

Brief description of the working environment: Even though I was online PS, our industry Mentor, Mr. Shamil Sir kept regular meetings and guided us through the way. Our BITS mentor, Prof. Rajan Pandey guided through various steps such as keeping us on track by setting guidelines. Not just that, he kept our time availability into consideration as well.
I learned a lot about Team coordination, presentation skills and interpersonal skills.

Academic courses relevant to the project: Manufacturing processes

Learning Outcome: We learnt how manufacturing production units are designed. Learning about various elements in processing we never knew

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PS-I station: Commercial Consultancy Services (Flexsim), Bangalore

Student

Name: ARJUN SONI(2023A4PS1154G)

Student Write-up:

PS-I Project Title: Aircraft manufacturers- Lead time estimation

Short Summary of work done: This project simulates the production process of an aircraft component manufacturing company that handles low-volume, high-value orders. The primary objectives were to estimate the lead time for each order and analyze the utilization of resources such as machines, operators, and transporters. The production system involves five product types (A to E) and a network of nine machines arranged across multiple processing paths. Each order consists of a unique combination of products and arrives at scheduled times throughout the day. To handle this complexity, we used table-driven routing through a centralized Global Mix Table (GMT). This table stores the routing sequence and processing times for each product type, allowing for flexible, scalable routing without hardcoding. Each part entering the system is tagged with a component label representing its product type and an OrderNum label to track which order it belongs to. These labels guide the part through the correct processing route and ensure proper grouping at the packaging stage. Transport between machines and the packaging area is handled by a forklift and two human operators, assigned based on machine groupings. Packed orders are finally moved to the dispatch area via a conveyor. Although the Statistics Collector auto-generates item and port labels, they were not used, as the focus was on custom tracking through component and OrderNum. The model successfully replicates real-world operations and provides key performance insights.

Objectives of the project: To estimate the lead time for a aircraft manufacturers order list using FlexSim

Tool used: FlexSim

Details of Papers/patents: None

Brief description of the working environment: Very comfortable work environment with friendly faculty. This PS1 aimed to give students hands-on experience in discrete-event simulation using FlexSim for a realistic manufacturing scenario. Students were expected to understand complex routing logic, manage multiple product flows, and apply tools like the Global Mix Table, labels, and transport resources effectively. The project reinforced concepts like lead time analysis, resource utilization, and order tracking. By the end, students gained practical skills in building scalable models, using label-based routing, and interpreting simulation results to improve system efficiency — all key to solving real-world industrial engineering problems.

Academic courses relevant to the project: yes

Learning Outcome: Proficient use of flexsim software.

PS-I station: Commercial Consultancy Services (Flexsim), Bangalore

Student

Name: MITANSH MANOJ MOHITE(2023A4PS1221G)

Student Write-up:

PS-I Project Title: Crankshaft assembly

Short Summary of work done: .

Objectives of the project: To optmise the assembly of PCOS 007,008 using flexsim software

Tool used: Flexsim

Details of Papers/patents: .

Brief description of the working environment: .

Academic courses relevant to the project: Mechanical, Manufacturing

Learning Outcome: How flexsim works and how assembly are simulated

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PS-I station: Commercial Consultancy Services (Flexsim), Bangalore

Student

Name: PARTH MUNDRA .(2023B1A40842P)

Student Write-up:

PS-I Project Title: Injection Assembly System

Short Summary of work done: Over the course of the project, we worked on simulating and optimizing a warehouse system using FlexSim. We began by creating a basic warehouse layout with essential components such as conveyors, processors, and operators. Once the initial setup was in place, we explored tools like the Dashboard and Global Table to monitor item flow, resource usage, and process times—helping us identify key bottlenecks. To make the simulation more realistic, we incorporated MTBF (Mean Time Between Failures) and MTTR (Mean Time To Repair) settings to simulate machine breakdowns and repairs. We also added a timetable that included shift timings and breaks, which allowed us to see how real-world time constraints impact overall performance. In the later stages, we recreated the same layout using Process Flow, which gave us more flexibility and control over task logic, operator assignments, and resource management. This helped us manage complex processes more effectively and improved the clarity of task sequences. Finally, we compiled all our findings into a detailed project report and prepared a presentation to showcase our approach, tools used, key learnings, and improvements made. This helped us understand both the technical and communication aspects of simulation-based problem-solving.

Objectives of the project: The objective of this project was to simulate and optimize a warehouse system using FlexSim by identifying bottlenecks, incorporating realistic conditions, and improving overall efficiency through data-driven analysis and process flow control.

Tool used: Flexsim software

Details of Papers/patents: None

Brief description of the working environment: During my PS-I, the working environment was flexible, engaging, and well-structured. We had the freedom to manage our time and held regular weekly meetings to stay aligned. Our industry mentor, Mr. Shamil, was incredibly helpful and approachable—always offering guidance and constructive feedback that pushed us to improve. Our faculty-in-charge, Prof. Amol, was equally supportive, clearly communicating what was expected of us and ensuring we were always in the loop by sharing meet links and updates in advance. This experience helped me grow technically through FlexSim simulations and professionally through structured collaboration and consistent feedback.

Academic courses relevant to the project: Engineering Graphics

Learning Outcome: The project helped us learn how to build realistic warehouse simulations using FlexSim, identify bottlenecks through data analysis, and use tools like Process Flow, MTBF/MTTR, and timetables to improve system efficiency. It also strengthened our ability to present technical findings clearly and effectively.

PS-I station: Commercial Consultancy Services (Flexsim), Bangalore

Student

Name: SATVIK GORANTALA .(2023B3A40276H)

Student Write-up:

PS-I Project Title: crankshaft assembly simulation

Short Summary of work done: During my Practice School-I, I was part of a team working on simulating a crankshaft manufacturing process using FlexSim software. The main objective of our project was to build a digital model of the production layout, analyze its performance, and suggest improvements to increase efficiency. We began by recreating the factory layout in the simulation environment and inputting the processing times and flow logic based on the data provided. Our team tested different configurations of the production line to study how changes in setup affected overall output. We used the software's tools to measure important performance indicators like the number of parts produced (throughput), waiting times, and

system bottlenecks. To make the simulation more realistic, we also added machine breakdown behavior and included planned downtimes through shift-based breaks. One of the key activities was experimenting with different scenarios, such as assigning operators to machines or adjusting the arrival timing of materials. This helped us compare results and understand which changes made the process more efficient. Overall, the PS-I experience gave me practical exposure to how simulation tools can help in analyzing and improving industrial systems. It also helped improve my teamwork, problem-solving, and technical reporting skills.

Objectives of the project: making a layout of crankshaft assembly in flexsim and suggest recommendations to reduce bottlenecks

Tool used: Flexsim , microsoft excel and powerpoint

Details of Papers/patents: none

Brief description of the working environment: During PS-I, we worked on simulating a crankshaft manufacturing process using FlexSim. The working environment was collaborative, and we were expected to model the layout accurately, analyze system performance, and suggest improvements based on data.
The company provided input data and general guidance during meetings. Key expectations included timely progress, teamwork, and effective communication.
I learned how to use simulation tools to understand production flow, identify bottlenecks, and test improvements. We applied concepts like machine breakdowns (MTBF/MTTR) and used Time Tables to simulate planned downtimes.
Overall, PS-I gave me practical exposure to industrial systems and improved both my technical and teamwork skills.

Academic courses relevant to the project: yes

Learning Outcome: Simulation Modeling, Manufacturing Systems, Production Flow Analysis

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PS-I station: Commercial Consultancy Services (Flexsim), Bangalore

Student

Name: SRIGHAKOLLAPU V N B ASISH RAM .(2023B4A40805H)

Student Write-up:

PS-I Project Title: Simulation model of high pressure diesel facility

Short Summary of work done: During my PS-I at Commercial Consultancy Services, I worked on the simulation of a High-Pressure Diesel Tube Assembly Facility using FlexSim. The primary goal was to build a 3D model that accurately represented the workflow of the manufacturing system. I was involved in designing the layout, setting up process logic, and integrating different components of the facility into the simulation environment.Through this project, I not only learned how to use FlexSim efficiently but also understood the importance of simulation in real-world industrial problem-solving

Objectives of the project: The objective of the project was to simulate a 3D model of a High-Pressure Diesel Tube Assembly Facility using FlexSim. The aim was to replicate the real-world manufacturing process, optimize workflow, analyze system performance through key metrics like throughput and machine utilization, and identify potential bottlenecks for operational improvement.

Tool used: Software:FlexSim (Simulation and Modeling)

Details of Papers/patents: NO

Brief description of the working environment: The working environment at Commercial Consultancy Services was professional, collaborative, and conducive to learning. Despite being a remote internship setup the company ensured clear communication channels and timely support. We were assigned mentors who guided us through the simulation process, and regular check-ins helped track our progress. The overall team culture was supportive, and constructive feedback was always encouraged.
During PS-I I gained technical knowledge about discrete-event simulation, learned how to create and optimize facility layouts, and understood key industrial performance metrics such as utilization, queue times and throughput. Beyond technical skills I also improved in areas like documentation, teamwork, and time management. Weekly review meetings provided opportunities to present our progress, explain decisions, and incorporate feedback skills crucial for any professional environment.

Academic courses relevant to the project: Optimization,Operation research,probabilty and statistics

Learning Outcome: Gained hands-on experience in system simulation using FlexSim.Learned how to design and model complex manufacturing system.

PS-I station: CSIR-National Institute Of Science Communication and Policy Research (CSIR–NIScPR), New Delhi

Student

Name: JYOTIRADITYA PATI .(2023A1PS0165P)

Student Write-up:

PS-I Project Title: Green Hydrogen, Big Data and AI enabled Data Analysis

Short Summary of work done: During my PS-1 at CSIR–National Institute of Science Communication and Policy Research (NIScPR), New Delhi, I worked on a research project related to the safety aspects of green hydrogen. With hydrogen emerging as a crucial component of India's clean energy transition, ensuring its safe production, storage, and utilization is of great importance. My primary responsibility was to contribute to the development of a comprehensive accident and incident database covering global hydrogen-related events. This involved identifying relevant sources, extracting technical details, and categorizing incidents systematically into tables for further analysis. In addition to data collection, I assisted in mapping the incidents geographically and exploring temporal trends to identify patterns across regions and applications. I also studied different forecasting approaches to predict the probability of hydrogen accidents, thereby helping assess potential risks in future large-scale hydrogen deployment. The work further included familiarization with big data and AI-enabled analytics, where I explored the use of MATLAB and Python tools for processing large datasets and deriving insights. Through this project, I gained exposure to interdisciplinary research, combining chemical engineering knowledge with data analytics, and contributed to ongoing efforts to develop safer and more reliable hydrogen-based energy systems.

Objectives of the project: Data Analysis using existing databases relating to Hydrogen accidents, contextualising it to India.

Tool used: Mentioned above

Details of Papers/patents: N/A

Brief description of the working environment: Cooperative staff, pace is relaxed as it is a dry lab so most of the work is from the intellect. Flexibility given also on how one approaches a problem or deadlines.

Academic courses relevant to the project: yes

Learning Outcome: Learning Python, QGIS, MATLAB, VOSViewer and research skills development.

PS-I station: CSIR-National Institute Of Science Communication and Policy Research (CSIR–NIScPR), New Delhi

Student

Name: KABIR GARG .(2023A2PS0955H)

Student Write-up:

PS-I Project Title: Scientiomeric Analysis of IJPAP and JIPR

Short Summary of work done: Basically analysed performance of 2 journals,data was taken from there website and then 2 research papers were made based on that and published in journals

Objectives of the project: Scientiomeric Analysis of IJPAP and JIPR

Tool used: Flask,python

Details of Papers/patents: Analysis of Journal Performance

Brief description of the working environment: Work Environment was very good and chill..there are other scientists doing more projects too(like Computer Vision to convert sign language to text,water analysis of states etc.) and they will be happy to have bits students even after PS1 finishes,You will get a publication to your name which can be helpful if planning to do masters or even in general too.

Academic courses relevant to the project: yes

Learning Outcome: Web Scrapping,Research Publications

PS-I station: CSIR-National Institute Of Science Communication and Policy Research (CSIR–NIScPR), New Delhi

Student

Name: LUVYA MALIK(2023A3PS0542G)

Student Write-up:

PS-I Project Title: Use of Generative AI in Science Communication in Indian Regional Languages

Short Summary of work done: At CSIR–NISCPR, I worked on the project "Use of Generative AI for Science Communication in Indian Regional Languages." The goal was to evaluate how effectively GenAI tools like ChatGPT, Anuvaad, and DeepSeek translate scientific content into Indian languages such as Marathi, Punjabi, and Assamese. I curated science passages from NISCPR's database and translated them using each GenAI tool. I then applied semantic evaluation metrics—BERTScore and cosine similarity—via Python and Pandas to assess accuracy. The best AI translation was compared with a human version through a bilingual blind survey to understand user preferences on clarity, trust, and technical correctness. The study showed that while AI translations are fast and readable, human outputs are still preferred for scientific tone and accuracy. This work contributes to national goals like NEP 2020 and Bhashini by promoting inclusive, multilingual science access. Through this internship, I gained practical experience in AI translation evaluation, semantic scoring, data analysis, and survey research—while exploring AI's role in bridging India's language divide in science communication.

Objectives of the project: Getting to Know the user preference on AI translation in reference to human Translation

Tool used: Python , Pandas , Excel , google sheets , google colab , world of science

Details of Papers/patents: Was part of a big project , paper would be published from 12-18 months

Brief description of the working environment: During my internship at CSIR–NISCPR, I was immersed in a research-focused environment that emphasized both independence and academic rigor. The organization provided a highly collaborative and supportive atmosphere, allowing interns to pursue meaningful research while learning from senior scientists and domain experts. Despite the project being technically intensive, I was given flexibility in choosing tools, methodologies, and implementation strategies, which encouraged creativity and ownership.

The expectations from the organization were clear: to conduct structured, ethically sound research that aligns with the larger mission of inclusive science communication. I was expected to contribute meaningful insights, critically analyze GenAI tools, and present evidence-based conclusions. Timely documentation, active participation in review meetings, and maintaining high-quality work standards were emphasized.

Through this experience, I gained hands-on exposure to generative AI tools, translation evaluation metrics (BERTScore, cosine similarity), and data analysis using Python and Pandas. I also designed and deployed a multilingual survey for human evaluation—strengthening my understanding of survey design and behavioral data interpretation.

Most importantly, I learned how AI technologies can be applied to real-world challenges like language accessibility in science. The internship enhanced my research, communication, and problem-solving skills, preparing me to work at the intersection of technology, policy, and social impact

Academic courses relevant to the project: yes

Learning Outcome: Data analysis , Journal writing and understanding

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PS-I station: CSIR-National Institute Of Science Communication and Policy Research (CSIR–NIScPR), New Delhi

Student

Name: ADITYA GUPTA .(2023B3A40440H)

Student Write-up:

PS-I Project Title: PATENT QUALITY AND VALUATION METRICS: FOUNDATIONS FOR EMPIRICAL RESEARCH AND FINANCIAL ASSESSMENT

Short Summary of work done: During this internship, I worked on developing a structured framework to assess the quality of patents using real-world data from the XLSCOUT patent analytics platform. The core objective was to compute a Patent Quality Index (QI) by applying a composite formula derived from the Energy Policy (2022) research paper. This index combined key indicators such as forward citations, patent family size, number of claims, and IPC spread. My responsibilities included cleaning and processing a large dataset of over 40,000 patent records, normalizing variables, and handling missing or inconsistent entries. I used Python (with pandas, NumPy, and visualization libraries) and Excel for the entire analysis. I identified the top patents and high-performing assignees based on QI scores and generated visual insights into quality trends across sectors and firms. In addition, I explored the limitations of bibliometric-only approaches and proposed future directions involving semantic content analysis, machine learning models, and market-based valuation techniques. The project offered hands-on experience in innovation analytics and highlighted how patent quality metrics can help reduce information asymmetry in technology financing. This work not only sharpened my technical and analytical skills but also deepened my understanding of intellectual property as a strategic and financial asset.

Objectives of the project: To develop a robust, data-driven framework for assessing patent quality using bibliometric indicators (citations, family size, claims, IPC spread) from XLSCOUT data, and to compute a composite Patent Quality Index (QI) based on the Energy Policy (2022) methodology—ultimately enabling better identification of high-value patents for use in innovation financing, strategic IP management, and future valuation modeling.

Tool used: Python 3.x – For data cleaning, analysis, and computation of the Patent Quality Index (QI). Pandas & NumPy – To manipulate large patent datasets and perform numerical operations. Matplotlib & Seaborn – For creating histograms, bar charts, and visual representations of quality trends. Microsoft Excel – Used for initial data inspection, formula-based calculations, and tabular summaries. XLSCOUT Platform – Source of comprehensive patent metadata including citations, family size, IPC codes, and assignee information. VS Code & Jupyter Notebook – Coding environments used to run, test, and document the Python workflow. Openpyxl – For reading and writing Excel files programmatically.

Details of Papers/patents: none

Brief description of the working environment: During my PS-I internship, I worked under the guidance of a senior researcher at CSIR-NIScPR in a supportive and academically driven environment. The work culture was research-focused, encouraging independent exploration while ensuring timely feedback and discussions. Weekly reviews with my mentor helped align progress with the project's objectives and offered valuable insights into both technical and conceptual aspects.

The organization expected a disciplined, analytical approach to solving real-world problems using academic frameworks. I was expected to work with large patent datasets, understand the relevance of intellectual property in innovation policy, and deliver meaningful outputs based on patent quality assessment models. The emphasis was on applying theory to practice, managing data integrity, and developing insights that could inform future IP-based financing or policy strategies.
The internship offered a valuable learning experience by combining technical tools like Python and Excel with applied research in the field of patent analytics. I gained hands-on exposure to handling bibliometric data, implementing composite indices, and visualizing trends across thousands of patents. I also developed a better understanding of how patents can be evaluated for strategic value and financial use.
Overall, PS-I helped me strengthen my data analysis, research, and problem-solving skills while exposing me to the practical relevance of economics, innovation, and intellectual property in policymaking and commercial strategy.

Academic courses relevant to the project: Econometrics – For understanding and applying statistical models, normalization techniques, and index construction methods.
Intellectual Property Rights (IPR) – Provided foundational knowledge of patents, claims, citations, and global IP systems.
Data A

Learning Outcome: Through this project, we developed a clear understanding of how patent data can be used to assess innovation quality. We applied a structured quality index model from academic literature and adapted it to real-world data sourced from XLSCOUT. This involved working with key bibliometric indicators such as forward citations, family size, claims, and IPC spread to compute a composite Patent Quality Index (QI).
The project significantly strengthened our skills in data cleaning, normalization, and analysis using Python libraries like pandas, NumPy, and seaborn. We also learned to create insightful visualizations to identify top-performing patents and assignees.
A key outcome was learning how to bridge academic models with practical constraints by approximating unavailable metrics and normalizing features for consistency. This helped us interpret quality trends meaningfully, despite data limitations.
Additionally, the project laid the groundwork for future research involving semantic patent evaluation, legal analysis, and machine learning-based valuation models. It highlighted the importance of data-driven approaches in reducing information asymmetry and supporting innovation financing.

PS-I station: CSIR-National Institute Of Science Communication and Policy Research (CSIR–NIScPR), New Delhi

Student

Name: AYUSHMAAN YADAV .(2023B4AD1044P)

Student Write-up:

PS-I Project Title: Development of NKRC Pprtal

Short Summary of work done: Made the nkrc website for internal institute usage

Objectives of the project: To make the nkrc website

Tool used: React, Django, JWT

Details of Papers/patents: N/A

Brief description of the working environment: The working environment was one that would make me feel motivated, everyone was supporting and motivating, the employees helped me complete the project and the mentor was also very flexible and understanding, learnt full stack development using Reactjs and Django REST Framework

Academic courses relevant to the project: DBMS, DSA, OOPS

Learning Outcome: Reactjs and Django REST Framework

PS-I station: Ebo Mart Pvt Ltd - Non Tech, Bengaluru

Student

Name: GAURANGI AGARWAL(2023A1PS0126G)

Student Write-up:

PS-I Project Title: IBO Eagle App

Short Summary of work done: During the 54-day internship at EBO Mart Pvt Ltd, I worked on the Eagle App, a leadership dashboard designed to provide real-time business insights to the company's executive team. I contributed to product scoping, UX design, backend planning, and system testing. The MVP version of the app allows CXOs to access core KPIs such as Total Sales, Footfall, Store Revenue Leaderboard, and apply filters across time and geography. I designed user journeys, wireframes, and component logic using Figma, and worked closely with backend developers using Node.js, Fastify, and PostgreSQL. We also explored future AI features such as anomaly detection and executive summaries. I learned how to manage complexity by scoping clearly, writing product specs, and facilitating alignment across teams. This experience helped bridge my engineering background with practical product management in a live enterprise environment.

Objectives of the project: Making an MVP of a dashboard app to be used by the Exec-Leaders of the company. The app enables real-time decision-making by surfacing business-critical KPIs such as Sales, Footfall, and Store Rankings, supported by intuitive UX and scalable backend systems.

Tool used: Figma, Adobe XD, Kotlin Multiplatform, Fastify.js, Node.js, PostgreSQL, BigQuery, Docker, Postman, Notion, n8n, Ollama

Details of Papers/patents: None

Brief description of the working environment: The working environment at EBO Mart Pvt Ltd was dynamic, startup-paced, and highly collaborative. We had a clear product vision from the beginning, but execution required agility and coordination across multiple stakeholders.The company's expectations were clear: deliver a functional MVP that leadership could interact with, while keeping future extensibility in mind. The freedom to contribute across design, documentation, and feature logic gave me real ownership. I also got exposure to how internal tools differ from customer-facing apps in design and feedback sensitivity. Overall, the experience helped me grow as a product thinker and taught me how real-world constraints shape digital solutions. I will say though that we did not get alot of mentorship as the startup had alot of work going on in the side.

Academic courses relevant to the project: yes

Learning Outcome: Learned to translate strategic business needs into actionable product flows.
Gained experience working cross-functionally across frontend, backend, and data teams
Understood the trade-offs in defining an MVP under time and technical constraints

Developed strong UI/UX alignment practices tailored to CXO-level users

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PS-I station: Ebo Mart Pvt Ltd - Tech, Bengaluru

Student

Name: ADITI KAMAL BABU .(2023B5A81101P)

Student Write-up:

PS-I Project Title: Frontend Development of Internal Diagnostics 'Eagle' Applications for KPNFresh and IBO

Short Summary of work done: Developed the UI/UX and Navigation flow of Internal Diagnostics 'Eagle' Applications for KPNFresh and IBO

Objectives of the project: To develop the UI/UX and Navigation flow of Internal Diagnostics 'Eagle' Applications for KPNFresh and IBO

Tool used: Android Studio, Kotlin, Jetpack Compose, Git, Adobe XD, Figma

Details of Papers/patents: NA

Brief description of the working environment: It was a wonderful experience working with the company. I learned how to apply theoretical knowledge to real-life situations.
Academic courses relevant to the project: Comp Arch? DSA? Nil

Learning Outcome: Frontend Development, Product and Activity Lifecycles

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PS-I station: Empower Capital Consulting LLP, Mumbai

Student

Name: AYUSHMAN JAISWAL(2023A4PS0295G)

Student Write-up:

PS-I Project Title: Pitch deck preparation

Short Summary of work done: During my PS-1 internship, I conducted a comprehensive sector study on infrastructure, analyzing market trends, government policies, and growth opportunities in roads, railways, and urban development. Additionally, I prepared an investor pitch deck for a fasteners manufacturer, outlining its market potential, competitive edge, and financial projections to secure funding. This experience honed my research, financial analysis, and persuasive presentation skills, providing practical insights into both macroeconomic sector dynamics and startup fundraising strategies. The dual focus helped me understand how infrastructure growth drives demand for manufacturing while mastering the art of crafting compelling business proposals.

Objectives of the project: The objective of a pitch deck is to clearly and compellingly communicate your business idea, value proposition, and growth potential to investors, partners, or stakeholders in order to secure funding, partnerships, or support.

Tool used: MS WORD

Details of Papers/patents: NIL

Brief description of the working environment: My PS-1 internship was conducted online, requiring self-discipline and proactive communication to navigate the virtual work environment. Despite initial challenges in remote collaboration, I adapted by setting clear goals, maintaining regular updates with mentors, and leveraging digital tools for research and presentations.

Academic courses relevant to the project: FUFA

Learning Outcome: Creating a pitch deck is a highly valuable exercise that helps entrepreneurs refine their business strategy, communication skills, and investor readiness.

PS-I station: Empower Capital Consulting LLP, Mumbai

Student

Name: RATHI TANMAY ANAND .(2023B3A70953P)

Student Write-up:

PS-I Project Title: Pitch desk for 100 cr fundraise for a jeweller brand

Short Summary of work done: During the PS-I, I worked as part of a three-member team responsible for preparing a professional pitch deck to support a ₹100 crore equity raise for an unlisted B2B gold jewellery manufacturer. My contributions included extensive industry and macroeconomic research, drafting sections on gold as a sector, market performance trends, innovation and regulatory developments, investment relevance of gold, the jewellery value chain, government support, and future outlook. I created graphs, charts, and visual elements to support the narrative and synthesized data from various sources into a coherent and investor-friendly format. The final deck included analysis on competitors, financial projections, funding breakdown, and valuation methodology. I also assisted in preparing a written report version of the deck to complement the presentation.

Objectives of the project: The primary objective of the project was to evaluate the investment readiness of a B2B gold jewellery manufacturing company and develop a detailed investment pitch deck for a ₹100 crore equity fundraise. The project aimed to analyze the company's business model, understand its value proposition, assess sector-specific opportunities and challenges, and benchmark its strengths against competitors.

Tool used: The primary tools used during the project were Microsoft PowerPoint for preparing the pitch deck, Microsoft Word for drafting the report, and Microsoft Excel for basic data analysis, formatting, and chart generation. Online research tools such as Statista, IBEF, World Gold Council, and government websites were also used extensively for sourcing credible industry and macroeconomic data.

Details of Papers/patents: There were no research papers or patents filed as part of this PS-I project. However, the output was a comprehensive pitch deck and report that followed the professional standards expected in investment banking and private equity environments.

Brief description of the working environment: Empower Capital Consulting LLP offered a dynamic and intellectually stimulating working environment. The expectations from the company were clear: deliver high-quality, data-driven insights and contribute meaningfully to the pitch deck with professional-level presentation and research skills. The mentorship

provided by the industry guide and periodic feedback sessions helped me improve continuously. I had the freedom to explore industry data, make assumptions based on structured logic, and creatively present findings. The learning curve was steep, but the guidance from the team made it manageable.

Academic courses relevant to the project: DRM, FundaFin, Microeconomics, Macroeconomics

Learning Outcome: Through this project, I gained valuable insights into the private equity and investment research ecosystem. I developed a nuanced understanding of the Indian jewellery sector, macroeconomic and regulatory influences, export dynamics, and the transition from unorganized to organized retail. I learned how to conduct competitive benchmarking, perform market sizing, and translate complex industry data into investor-relevant insights. Additionally, I improved my proficiency in creating structured presentations, interpreting industry reports, and crafting compelling equity narratives for fundraising.

PS-I station: EquipSetu (SmalBlu Technologies Pvt. Ltd.), Gujarat- Tech, Ahmedabad

Student

Name: SACHIT VIJ (2023A2PS0286P)

Student Write-up:

PS-I Project Title: Understanding Deep Learning Fundamentals for EquipSetu

Short Summary of work done: During my internship at EquipSetu (SmalBlu), I completed Course 1 of Andrew Ng's Deep Learning Specialization. The course focused on binary classification, vectorization, and multi-layer network training. I implemented models using NumPy and evaluated their performance using .h5 datasets like train_catvnoncat. This hands-on experience helped me understand the model-building lifecycle, including bias-variance trade-offs and hyperparameter tuning. These skills closely relate to EquipSetu's intelligent cloud layer optimizations, where adaptive algorithms must balance performance and reliability in real time.

Objectives of the project: The main goal was to understand the foundational principles of neural networks and deep learning. This included mastering concepts such as logistic

regression, forward/backward propagation, and training deep models using gradient descent. The project also aimed to explore how these techniques could be applied to enterprise-grade systems like those developed at EquipSetu, which optimize cloud and data infrastructure performance.

Tool used: Development was done using Python, NumPy, h5py, and Jupyter Notebooks in a Windows environment. I also used Matplotlib for visualization. Cloud storage and data access practices were aligned with EquipSetu's principles of efficient, adaptive infrastructure design.

Details of Papers/patents: No papers or patents were produced during the internship period.

Brief description of the working environment: The working environment at EquipSetu was research-focused and self-driven. I was expected to independently explore deep learning and connect theoretical understanding with enterprise use cases. The learning aligned well with EquipSetu's mission — building intelligent systems that optimize enterprise IT stacks across layers. My work, though foundational, mirrors how EquipSetu's agentic engine uses data learning to manage compute, network, and application layers. This parallel made the internship both technically rewarding and conceptually relevant to modern cloud platforms.

Academic courses relevant to the project: Courses such as Artificial Intelligence, Machine Learning, Linear Algebra, and Python Programming were directly applicable. Knowledge of cloud infrastructure and networking also helped contextualize EquipSetu's use cases.

Learning Outcome: I developed a clear understanding of how supervised learning algorithms function, particularly within neural network frameworks. A key takeaway was learning how to train, tune, and evaluate classification models from scratch using Python and NumPy. I also explored how such models could enhance enterprise cloud systems by learning from data flows similar to how EquipSetu's platform adaptively optimizes network and compute resources.

PS-I station: EquipSetu (SmalBlu Technologies Pvt. Ltd.), Gujarat- Tech, Ahmedabad

Student

Name: ARUNAV SATYARAJ(2023A4PS0275G)

Student Write-up:

PS-I Project Title: Web Development

Short Summary of work done: Created a code to automatically extract data from a given website and convert in into csv format, worked on extracting the formula used in another website for calculation of ROI, worked on creating the front-end of the company's website.

Objectives of the project: Web Scrapping, Front-end Development, learning the integration of API

Tool used: HTML, CSS, JS, REACT, PostgreSQL, Fast API

Details of Papers/patents: N/A

Brief description of the working environment: The working environment was quite supportive and chill. More emphasis was made on learning and understanding it's implementation. Work load was balanced with support from mentors.

Academic courses relevant to the project: N/A

Learning Outcome: Learned to create website using reusable components in react, learned to integrate API's on the website.

PS-I station: eShipz.com (LogIQ Labs Pvt. Ltd.) - Product Management, Bengaluru

Student

Name: DHAVAL GUPTA .(2023B3A70974P)

Student Write-up:

PS-I Project Title: A CONVERSING AGENT TO GUIDE THE USER TO CONSTRUCT THE SHIPPING RULES, SETTING THE PRIORITIES, CHOOSING APPROPRIATE CARRIERS

Short Summary of work done: We were asked to make a conversational chatbot to help users navigate through the shipping rules

Objectives of the project: This project aims to develop an intelligent conversational agent for eshipz.com, enabling non-technical users to configure complex shipping rules using natural language. The system will leverage a BERT-based NLU for accurate intent classification and maintain a context-aware dialogue. Key objectives include reducing configuration time by up to 70%, supporting five distinct rule types (e.g., fastest/cheapest), and integrating with carrier APIs for real-time data. The agent will also feature comprehensive voice interaction capabilities, making sophisticated logistics management significantly more accessible and efficient for businesses, allowing for seamless, hands-free operation.

Tool used: Visual Studio Code, Jupyter, Google Colab, Kaggle,

Details of Papers/patents: https://huggingface.co/asif00/Kokoro-Conversational

Brief description of the working environment: Work was online and we recieved good support from our PS mentors on how to execute the project, It was a good project to understand generative NLP and BERT model.

Academic courses relevant to the project: Introduction to LLM probably

Learning Outcome: completing this project, we are able to design and develop an intelligent conversational agent for a specific business need. You will gain hands-on experience implementing BERT-based NLU models for intent classification and developing context-aware dialogue management systems. You will learn to integrate external APIs for real-time data retrieval and create end-to-end voice-enabled applications with speech-to-text and text-to-speech functionalities. This project will equip you with the practical skills to translate complex business requirements into a functional, user-friendly AI solution that solves real-world logistical challenges and improves operational efficiency.

PS-I station: Garsi Exports, Hyderabad

Student

Name: HARSHIT KUMAR(2023A1PS1181G)

Student Write-up:

PS-I Project Title: Digital marketting

Short Summary of work done: Made 8 reels for the instagram handle of garsi exports , did market research on what products should we export , made a catalogue on vegetable saps , called frieght forwarders and negotiated for prices for frieght , called various testing labs to test various parameters in a sample of carbon related compound .

Objectives of the project: Make AI powered reels for the instagram handle of the garsi group to improve its presence online

Tool used: Elevenlabs , Submagic , premiere pro , excel , ITC trademap

Details of Papers/patents: None

Brief description of the working environment: The work life balance was good , expected to learn more related to finance than import export and learned video editing and how to edit reels using ai , learned Canva and how the import export market works

Academic courses relevant to the project: yes

Learning Outcome: Video editing and market research on different exportable products

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PS-I station: Garsi Exports, Hyderabad

Student

Name: JUGAL ANAND BAROT(2023A3PS1032G)

Student Write-up:

PS-I Project Title: Business Development and Market Research

Short Summary of work done: Managing entire vertical of a product and generating leads for it from international companies

Objectives of the project: Handle chilli and turmeric market vertical of the company

Tool used: ITC trademap, Odoo, google doc , google sheets, viber , FreJun, LinkedIn Sales Navigator

Details of Papers/patents: None

Brief description of the working environment: Good working environment, needed to work at night as well many times for calling companies to generate leads in USA,Canada,etc.

Academic courses relevant to the project: POM,FuFA

Learning Outcome: Got to learn about the world of exports

PS-I station: Garsi Exports, Hyderabad

Student

Name: ANANT SARAF(2023A4PS0306G)

Student Write-up:

PS-I Project Title: International business development and Market research

Short Summary of work done: During my PS-I internship at Garsi Exports, Hyderabad, I worked in the International Business Development division, focusing on the export of agricultural products, particularly vegetable saps. My primary responsibility was to identify potential international markets and buyers through detailed market research and competitor analysis. I studied the regulatory requirements and quality standards of target countries to evaluate export feasibility. I also analyzed pricing strategies, demand trends, and import policies to shortlist high-potential regions. Alongside, I was involved in preparing client communication material, assisting with trade emails, and maintaining lead databases. Additionally, I gained exposure to the end-to-end export process, including documentation like invoices, packing lists, certificates of origin, and compliance reports. I supported the team in improving outreach strategies and contributed to the planning of future marketing efforts. This internship provided

me with hands-on experience in global trade operations and helped strengthen my skills in market analysis, communication, and problem-solving within a real-world business context.

Objectives of the project: Understand export procedures and documentation Research international markets for vegetable saps Study global trade regulations and pricing Support client outreach and lead generation Assist in improving export logistics and operations

Tool used: Microsoft Excel Google Sheets Microsoft Word Google Docs Gmail Outlook Rebtel Viber Out Odoo CRM Web browsers Trade portals

Details of Papers/patents: NA

Brief description of the working environment: The working environment at Garsi Exports was professional, fast-paced, and growth-oriented. I had the opportunity to work closely with the founders, which provided direct insights into strategic decision-making and international business development. The company expected interns to be proactive, detail-oriented, and independent in handling assigned tasks.
I was involved in market research, client outreach, export documentation, and CRM management. The hands-on experience helped me understand real-world export operations, global trade compliance, and effective communication with international clients. Overall, the internship enhanced my practical knowledge, problem-solving ability, and confidence in a professional setting.

Academic courses relevant to the project: POE, FuFA

Learning Outcome: Understanding of international trade processes
Knowledge of export documentation
Market research and analysis skills
Experience with client communication
Familiarity with global trade regulations
Use of CRM and outreach tools
Improved problem-solving and teamwork

PS-I station: Garsi Exports, Hyderabad

Student

Name: HIMANSHU DEEPAK GAJARE .(2023B1AA0830P)

Student Write-up:

PS-I Project Title: Market research and export operations

Short Summary of work done: Over the past several weeks, I have undertaken a diverse range of tasks focused on sustainability, international trade, and market research. I registered and familiarized myself with the ITC Trademap platform to support export-import analysis, while strengthening my proficiency in Microsoft Excel tools such as pivot tables, VLOOKUP, SUMIF, and COUNTIF for effective data management and Appscript for analysis. I prepared concise documents outlining sustainability concepts and conducted sectoral analysis specific to the Indian context. My market research encompassed both traditional and sustainability-oriented goods, including in-depth studies of novel products and machinery. I managed product cataloging, edited specification sheets, updated website content, and contributed blog posts. Comprehensive research on carbon certificates in Indian agriculture, solar, and wind sectors was conducted. I evaluated business development calling (VoIP) apps to enhance outreach. Rigorous market and shipment data analysis was performed for goods like instant coffee powder and coir pith, advancing viable leads to subsequent phases and engaging manufacturers for product queries. My ongoing efforts focused on follow-ups for sustainability machinery and continuous market research to expand the portfolio of exportable products, with both qualitative and quantitative assessments.

Objectives of the project: -Market research on Sustainable & normal exportable goods.

Tool used: -ITC Trademap -MS Excel-Canva -Wix -Tracxn-IndiaMART -ExportersIndia -Excel Appscript

Details of Papers/patents: NA

Brief description of the working environment: The internship provided a positive and collaborative work environment, characterized by open communication and consistent support. Regular interactions with both founders facilitated a culture of mentorship and accessibility, enabling direct learning and feedback. The team demonstrated a commitment to guiding interns through challenges, fostering both personal and professional growth.The company upheld high expectations regarding initiative, diligence, and adaptability. Interns were encouraged to take ownership of their assignments, contribute innovative ideas, and demonstrate enthusiasm for learning.

Academic courses relevant to the project: -Principles of Economics
-Cross Cultural Skills

Learning Outcome: -Business Communication
-How to do market research

PS-I station: Garsi Exports, Hyderabad

Student

Name: ARUNIMA SINGH KUSHWAH(2023B4A30927G)

Student Write-up:

PS-I Project Title: Digital marketing

Short Summary of work done: Enhanced the digital presence of garsi and learnt seo

Objectives of the project: Learn market research

Tool used: Canva and excel

Details of Papers/patents: None

Brief description of the working environment: It was online. Expected it to be on finance side but it was mostly sorting excel data

Academic courses relevant to the project: yes

Learning Outcome: Learnt extensive use of excel and Canva

PS-I station: GMR Varalakshmi Foundation, Hyderabad

Student

Name: KARTHIK PANDURANGAN(2023A3PS0215G)

Student Write-up:

PS-I Project Title: Career Guidance for students under the gifted children scheme

Short Summary of work done: During my Practice School-I at GMR Varalakshmi Foundation, I worked under the Education domain, supporting the Gifted Children Scheme. My tasks included reaching out to inactive students, updating contact records, and categorizing students based on responsiveness. I assisted in organizing and coordinating weekend skill development workshops and documented student participation. I also suggested improvements for outreach methods, including in-person visits and peer-led engagement. Towards the end of my internship, I compiled a list of short-term job-oriented career options tailored for the students and included them in the project recommendations. The experience gave me hands-on exposure to grassroots education initiatives and program implementation in a nonprofit setting.

Objectives of the project: To support the Gifted Children Scheme by improving student outreach, assisting in workshop coordination, maintaining tracking systems, and recommending strategies to boost engagement and program effectiveness

Tool used: Google Sheets, Microsoft Excel, WhatsApp, Phone calls, Google Forms, Canva.

Details of Papers/patents: None

Brief description of the working environment: The company environment was very supportive, and I gained practical knowledge.

Academic courses relevant to the project: Technical Report Writing

Learning Outcome: Understood the functioning of the Gifted Children Scheme, improved communication and coordination skills, gained experience in outreach and data management, and learned to identify engagement challenges while supporting education initiatives in underserved communities.

PS-I station: GMR Varalakshmi Foundation, Hyderabad

Student

Name: MEGHANA VARDHAN TUMMALA .(2023AAPS2031H)

Student Write-up:

PS-I Project Title: Career guidance for students under the gifted children scheme

Short Summary of work done: Had to make calls to unresponsive students with backlogs and checkup and suggest what they could do now to get a brighter future. Update the students whereabouts and educational aspects on the excel sheet. Find courses that would benefit students and involve more students in the existing courses offered by gmr

Objectives of the project: Repetitive checkup calls, career guidance, updating students profiles

Tool used: excel

Details of Papers/patents: None

Brief description of the working environment: expected much better project more related to the project domain specified like finance and management. Work environment was professional and friendly.

Academic courses relevant to the project: yes

Learning Outcome: updating lists, finding courses beneficial to students

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PS-I station: Group Bayport, Mumbai

Student

Name: DEVAM SHAH .(2023A7PS0595P)

Student Write-up:

PS-I Project Title: Multichannel Attribution Modelling for orders using regression analysis

Short Summary of work done: Initial weeks, I spent researching about the company and its domains. After that I researched about different attribution models with a focus on data based model. I developed two models based on shapley value attribution and markov chain. One of them gave better results so I went ahead with that. Through the project I worked under my mentor and two members of his team.

Objectives of the project: To develop a multi channel attribution model for orders gaining insights into channel contribution and improve ROAS of overall business

Tool used: Adobe analytics, Google cloud platform

Details of Papers/patents: Nil

Brief description of the working environment: Throughout the project the team members and my mentor were helpful and easy to approach. Working environment is relaxed as there is no pressure to come to office if proper work is done remotely. I was impressed by the Mumbai office as it was a co-working space with good vibes. The company adopts a cobsessed mindset and people here are very driven and particular about their work and strive to achieve business goals.

Academic courses relevant to the project: PnS.

Learning Outcome: Gained hands on experience of python coding. Learned about ecommerce business and consumer behaviour.

PS-I station: Incubrew Innovations Private Limited, Naini Tal

Student

Name: SAMPOORN KUSHWAHA .(2023A1PS1365H)

Student Write-up:

PS-I Project Title: Venture capital

Short Summary of work done: .

Objectives of the project: Vc firms

Tool used: .

Details of Papers/patents: .

Brief description of the working environment: Online

Academic courses relevant to the project: Business analysis

Learning Outcome: Funding rounds

PS-I station: Incubrew Innovations Private Limited, Naini Tal

Student

Name: SHRAYASH BARNWAL .(2023A3PS0361P)

Student Write-up:

PS-I Project Title: VENTURE CAPITALIST ANALYSIS OF THE INTERNET STARTUP SECTOR

Short Summary of work done: uring the internship at Incubrew Innovations Private Limited, I executed a research-driven project simulating a VC analyst's role. I conducted a deal sourcing exercise, profiling 30 early-stage Indian startups across fintech, SaaS, D2C, healthtech, and mobility, and drafted investment memos for the top 5 based on product, founder strength, and traction. I also performed market mapping, analyzing 20 startups founded between 2021–2025,

capturing data on funding, founders, and traction to identify trends like AI-led SaaS and sustainable D2C models. Finally, I created a 12-slide VC-style pitch deck summarizing the pipeline, sector trends, and top picks with data visualizations. This work deepened my understanding of the Indian startup ecosystem and honed skills relevant to venture capital, consulting, and product strategy.

Objectives of the project: Simulate a venture capitalist's workflow by sourcing and evaluating early-stage Indian internet startups. Conduct market mapping and sector analysis to identify trends and opportunities. Create a VC-style pitch deck to synthesize insights for investment decisions.

Tool used: Software: Microsoft Excel (for deal flow spreadsheets), PowerPoint (for pitch deck), LinkedIn, Crunchbase, Inc42, YourStory, AngelList, Tracxn.

Details of Papers/patents: None

Brief description of the working environment: The internship at Incubrew Innovations Private Limited was conducted online, offering flexibility to independently manage tasks. The company expected structured research, analytical rigor, and professional deliverables simulating a VC analyst's role. I worked on deal sourcing, market mapping, and pitch deck creation, fostering self-discipline and time management. The supportive guidance from mentor Ms. Aastha Toshniwal and faculty Mr. Yuvraj Singh encouraged proactive learning. I gained hands-on experience in evaluating startups, analyzing sector trends, and synthesizing insights into investor-ready formats. This enhanced my strategic thinking, research capabilities, and understanding of India's startup ecosystem, preparing me for roles in venture capital, consulting, and product strategy.

Academic courses relevant to the project: yes

Learning Outcome: Developed skills in deal sourcing, startup evaluation, and sector analysis.
Enhanced research, analytical, and visual communication abilities.
Gained understanding of the Indian startup ecosystem and VC processes.

PS-I station: Industrial 47, Bengaluru

Student

Name: NAMISH BARANWAL .(2023A8PS0705P)

Student Write-up:

PS-I Project Title: Internal Communication Tools & Investment Thesis

Short Summary of work done: Researched a lot of different hardware, defence and DeepTech sectors to build the fund's investment thesis and identify trends. Built an internal Chrome Extension for WhatsApp web to automate and organise communications. Built a feature-rich Chrome extension with intelligent chat tagging, automated reminders, Google Calendar sync via OAuth2, and bulk messaging. Leveraged Chrome Extension APIs, content script DOM manipulation, and service worker architecture for seamless WhatsApp Web integration.

Objectives of the project: To understand a VC's firm's deal flows to build a Chrome Extension for WhatsApp Web that organises and automates WhatsApp conversations just like email does.

Tool used: VS Code, GitHub Copilot, Perplexity Labs, Google Chrome, Developer Tools

Details of Papers/patents: -

Brief description of the working environment: Working environment: Really good, highly flexible. Projects were given with deadlines and complete ownership over how to do them.
The organisation was committed to our learning, always asking if we'd need any help and also connecting us with CTOs.

Academic courses relevant to the project: Business Communication, Web Development (JavaScript, API integration), Prompt engineering

Learning Outcome: 1. Venture Capital deal flows and thesis
2. Chrome Extension development
3. Business communication

PS-I station: InfraBid- Market Research, Hyderabad

Student

Name: YASH JAIN(2023B4A31222G)

Student Write-up:

PS-I Project Title: Market Research

Short Summary of work done: Mainly data collection

Objectives of the project: To research competitors and collect data

Tool used: Perplexity AI, Google sheets, canva, zauba corp

Details of Papers/patents: None

Brief description of the working environment: Good workng environment.

Academic courses relevant to the project: yes

Learning Outcome: Efficient use of Perplexity, google sheets.

PS-I station: ITCONS E-SOLUTIONS LTD, Noida

Student

Name: SPARSH GOEL(2023A3PS1041G)

Student Write-up:

PS-I Project Title: Capital market

Short Summary of work done: Hm

Objectives of the project: To research in market and find potential clients and make strategies around them

Tool used: Excel,python

Details of Papers/patents: No

Brief description of the working environment: Team building , team work

Academic courses relevant to the project: Finance minor

Learning Outcome: Python ,excel team, building

PS-I station: ITCONS E-SOLUTIONS LTD, Noida

Student

Name: AKSHAT GARG .(2023A7PS0512P)

Student Write-up:

PS-I Project Title: DIGITAL MARKETING

Short Summary of work done: During my PS-I at ITCONS e-Solutions Ltd, I worked on digital marketing projects focusing on enhancing the company's online presence. My responsibilities included optimizing website content, planning LinkedIn campaigns, and contributing to Quora engagement strategies. I analyzed existing content, suggested improvements in structure and keyword usage, and ensured alignment with ITCONS's positioning in HR and recruitment solutions. Additionally, I explored competitor benchmarks and suggested ways to increase visibility and credibility on professional platforms. This role enabled me to combine creativity with data-driven insights while directly contributing to the company's outreach efforts.

Objectives of the project: IMRPOVE ONLINE PRESENCE

Tool used: MS Office Suite Google Analytics LinkedIn Analytics Quora Business Tools WordPress (Website CMS)

Details of Papers/patents: NA

Brief description of the working environment: The working environment at ITCONS e-Solutions Ltd was collaborative and growth-oriented. The company expected interns to take ownership of tasks, contribute fresh ideas, and ensure timely completion of assigned projects. Regular interactions with the mentor provided guidance on industry practices and expectations. I learned how digital platforms like LinkedIn and Quora can be leveraged for B2B marketing, how SEO impacts business visibility, and how content strategy can drive engagement. Exposure to professional communication and reporting also enhanced my organizational and documentation skills. Overall, the experience bridged academic concepts with industry application, preparing me for larger professional roles.

Academic courses relevant to the project: Principles of Management
Marketing
Communication Skills
Database Systems

Learning Outcome: DIGITAL MARKETING , SEO

PS-I station: ITCONS E-SOLUTIONS LTD, Noida

Student

Name: NAMAN JOSHI .(2023B2A30933P)

Student Write-up:

PS-I Project Title: Government tenders and process optimization

Short Summary of work done: The major work was to improve the public sector undertakings of the company and for that we did some market research and registered ourselves in different platforms to increase company presence then we started working on the optimization of the tender filling process which including automation of 5+ processes through python coding and tested and implemented that in the working of the company with this I filled tenders of more than 50cr while the testing of our softwares and concluded that our automation tools led to 30% efficiency in time.

Objectives of the project: To improve public sector business of the company and optimize processes

Tool used: AI tools like chatgpt, perplexity, copilot for coding and visual studio code and different scripts to make the code

Details of Papers/patents: N/A

Brief description of the working environment: The working experience was good the mentors were really supportive and gave full exposure to the workings of corporate. The experience made me understand the general ground level sentiment of other employees as well and made me more efficient and empathetic in the corporate environment.

Academic courses relevant to the project: DRM and C programming

Learning Outcome: Python coding and Use of AI for development and process optimization

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PS-I station: Kotak Education Foundation, Mumbai

Student

Name: SHAMANDEEP CHANDRADEV SINGH(2023A8PS0529G)

Student Write-up:

PS-I Project Title: Working with Kotak Education Foundation

Short Summary of work done: Scripts for digital media content for KEF, ppts made for the same. Teaching alongsidr the teachers with the CEFR team by visiting the partenered schools

Objectives of the project: Create educational content, including video scripts, ppts. and Teaching in local vernacular medium school communicative english.

Tool used: Canva, Word, Powerpoint, Projectors

Details of Papers/patents: none

Brief description of the working environment: Working at HO/ wfm, at office working alongside mentors. During teaching hours, visiting various schools in the region.

Academic courses relevant to the project: yes

Learning Outcome: Working with peers, Teaching

PS-I station: Kotak Education Foundation, Mumbai

Student

Name: NAMAN MANOJ JHAVER(2023B4A30928G)

Student Write-up:

PS-I Project Title: Enhancing Scholarship Tracking through Data Analysis and Dashboard Design at KEF

Short Summary of work done: During my PS-I at Kotak Education Foundation (KEF), I worked under the Kotak Graduate Scholarship (KGS) program. My tasks focused on using data analysis and visualization to streamline scholarship tracking. The key contributions included financial aid utilization analysis, compiling certificate course options by stream, and mapping NAAC-accredited colleges in the Mumbai Metropolitan Region. I also designed student academic progress tracking models, developed an academic dashboard in Excel/Google Sheets, and created a ranking matrix to fairly evaluate 655 shortlisted students, helping finalize 455 scholarship recipients. These tasks combined technical analysis with social impact, strengthening KEF's ability to monitor scholars effectively.

Objectives of the project: To analyze scholar data, design dashboards, map colleges/courses, and build a ranking system for fair scholarship allocation.

Tool used: Microsoft Excel, Google Sheets, Microsoft PowerPoint, Google Docs

Details of Papers/patents: None

Brief description of the working environment: The working environment at KEF was professional yet collaborative, with mentors and staff being approachable and supportive. Expectations were clearly communicated—accuracy, timeliness, and clarity in analysis and presentation. I learned how educational data is applied to real-world CSR initiatives, how to structure dashboards for decision-making, and how to balance technical rigor with social outcomes. The experience also enhanced my teamwork, communication, and project management skills. Overall, KEF provided a positive and impactful environment to apply classroom learning for social good.

Academic courses relevant to the project: yes

Learning Outcome: Hands on experience of excel

PS-I station: Max Trantech Limited, Gurgaon

Student

Name: NIMIT GARG .(2023A7PS0608P)

Student Write-up:

PS-I Project Title: App Development of an HRMS app

Short Summary of work done: The bigger objective was to develop a whole HRMS app for the company, but this being a very big project i was assigned something more practical that is the development of few of the modules of the app such as calendar integrated task management.

Objectives of the project: Build the basic structure of a HRMS app to be used by the company employees

Tool used: flutter, ai, task management databases.

Details of Papers/patents: N/A

Brief description of the working environment: My mentor was supportive, he was the correct combination of being strict and helpful, got to learn a lot about the IT sector from this PS.

Academic courses relevant to the project: DBMS,OOPS.

Learning Outcome: completely learned how to develop an app

PS-I station: Max Trantech Limited, Gurgaon

Student

Name: DAKSH TYAGI .(2023A7PS0647P)

Student Write-up:

PS-I Project Title: Increasing the digital marketing presence of Max Transtech Limited

Short Summary of work done: At Max Transtech during PS-I, I drafted, translated, and proofread articles for the in-house magazine, created event and branding materials with Canva, and developed visuals such as infographics and explainer videos for employee training. I performed industry research to enhance social media strategies and wrote micro-blogs for SEOs to engage users on platforms like Quora. Additionally, I supported HR by conducting screening interviews.

Objectives of the project: Increasing the digital presence of the company through organic digital marketing

Tool used: S/w: Canva, SmallSeoTools, Grammarly, ahrefs, Google Trends, IlovePDF,

Details of Papers/patents: N/A

Brief description of the working environment: Max Transtech Limited is a 19-year-old logistics company with a strong culture. Every Saturday is a fun day, with employees participating in enjoyable team-building activities. The employees, especially my mentor, were approachable and willing to answer any questions I had. The company was welcoming, and the experts genuinely wanted to nurture our skills. I hope the company culture remains strong and that the company continues to grow. I learned a lot about digital marketing and was able to apply what I

learned immediately to increase the company's digital presence. I also learned what corporate culture is and how important it is, as well as the impact it has on employees.

Academic courses relevant to the project: Copywriting, Effective Public Speaking, Technical Report Eriting

Learning Outcome: Learning about the concepts of Content Marketing, and designing and applying them for

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PS-I station: Meerahi VR Pvt. Ltd - Non Tech, Pilani

Student

Name: ANSH LOKWANI .(2023A4PS0752H)

Student Write-up:

PS-I Project Title: Social Media Content Creation

Short Summary of work done: As a Social Media Intern at Meerahi VR, I focused on creating and managing content around mental health and wellness for Instagram and LinkedIn. The goal was to enhance the brand's digital presence while spreading awareness in a relatable and engaging manner. Key responsibilities included content ideation, scripting, caption writing, hashtag curation, and managing a consistent posting schedule. I also engaged directly with the audience through comments, stories, polls, and quizzes to foster a supportive online community. I contributed to several campaigns, including an inclusive Pride Month series, reels addressing digital addiction, and posts highlighting the impact of technology on mental wellbeing. Interactive content like carousels and quizzes was used to boost engagement and learning. Through this experience, I learned how tone, timing, and platform specificity influence content performance. I gained a deeper understanding of crafting empathetic mental health messaging and tailoring content to suit different audiences. Tools like ChatGPT, Perplexity AI, and Google Docs supported ideation, research, and collaboration throughout the internship. This role helped me apply creative thinking to real-world communication challenges and strengthened my ability to balance meaningful messaging with visual appeal. I'm grateful for the learning environment and the opportunity to contribute meaningfully to mental health awareness.

Objectives of the project: Support Meerahi VR's mission by highlighting its unique approach to mental health care. ● Build and maintain an active, engaging presence on Instagram and LinkedIn. ● ● Increase brand awareness, community interaction, and audience trust. Produce informative and inspiring content that drives engagement and action.

Tool used: -

Details of Papers/patents: -

Brief description of the working environment: The working environment at Meerahi VR was supportive and creative. The mentors were open to communication, approachable, and always encouraging, which made it easy to share ideas and ask for feedback.
The company expected consistent, thoughtful content aligned with its focus on mental health awareness. I learned to create platform-specific content, use interactive formats, and write with empathy and clarity. Overall, PS-I offered a valuable learning experience with both guidance and creative freedom.

Academic courses relevant to the project: - yes

Learning Outcome: Learnt the importance of:
Tone and Engagement
Timing and Consistency
Platform Specificity
Empathetic Messaging
in content creation and social media

PS-I station: Meerahi VR Pvt. Ltd - Tech, Pilani

Student

Name: CHANDRAPATI VENKATA PRAJESH .(2023A3PS1140H)

Student Write-up:

PS-I Project Title: Fullstack web development

Short Summary of work done: During PS-1 at Meerahi VR Pvt. Ltd., I contributed to the development of a full-stack web application focused on journaling, community interaction, and real-time chat. My primary role was on the frontend, where I implemented user authentication, journal and community pages, and integrated APIs using Next.js and Tailwind CSS. I also used Postman to test and understand backend API responses, and worked with async/await to ensure smooth data handling. Docker was used to connect to backend services in a consistent local development environment.

Objectives of the project: To create a fully functional website for the Company.

Tool used: Next.js,Tailwind CSS,Postman,Docker

Details of Papers/patents: NA

Brief description of the working environment: During my PS-I at Meerahi VR Pvt. Ltd., I worked in a collaborative and learning-oriented environment with clear expectations around building real-world web features and maintaining clean, efficient code. As a frontend developer, I was responsible for implementing user authentication, journal and community pages using Next.js and Tailwind CSS. I integrated APIs using async/await and tested endpoints with Postman to ensure smooth communication with the backend. The team followed a structured workflow with regular check-ins, version control via GitHub, and Docker-based local environments for consistency. This experience helped me improve my technical skills, understand real-world development practices, and gain confidence in working within a professional team setup.

Academic courses relevant to the project: Computer Programming

Learning Outcome: This project provided hands-on experience in full-stack web development, including building responsive UIs with Next.js and Tailwind CSS, integrating APIs securely using JWT and OAuth, and working with asynchronous data flows using async/await. It also strengthened skills in debugging, containerization with Docker, API testing with Postman, and collaborating in a real-world development workflow.

PS-I station: Meerahi VR Pvt. Ltd - Tech, Pilani

Student

Name: SUPRASAD MISHRA .(2023AAPS0238H)

Student Write-up:

PS-I Project Title: Building the frontend and backend

Short Summary of work done: Created the commercial meerahi website

Objectives of the project: Fullstack

Tool used: TS, Python

Details of Papers/patents: NA

Brief description of the working environment: Very friendly working environment, we learnt the needed knowledge and built what was asked. We created the website within 1.5 months and the rest of the time was used to learn more and also the mentor helped us.

Academic courses relevant to the project: It was a web dev based project

Learning Outcome: Teamwork, WebDev

PS-I station: Meerahi VR Pvt. Ltd - Tech, Pilani

Student

Name: AVICHAL DWIVEDI .(2023AAPS0302P)

Student Write-up:

PS-I Project Title: AI/ML on therapy

Short Summary of work done: Developed a agentic framework for providing therapy

Objectives of the project: Providing therapy using AI

Tool used: Google adk, langgraph

Details of Papers/patents: No

Brief description of the working environment: The company environment was very supportive and motivating. I gained confidence and improved my communication and teamwork skills.

Academic courses relevant to the project: yes

Learning Outcome: Agentic AI frameworks like langgraph, google adk and crew ai

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PS-I station: Meerahi VR Pvt. Ltd - Tech, Pilani

Student

Name: HANSA MUNDRA .(2023B3A71011P)

Student Write-up:

PS-I Project Title: Full stack developer

Short Summary of work done: Created database tables using PostgresSQL and used FastAPI to create, read, update and delete the user info, journal, chat, messages, community posts. Also added google oauth and middleware for security.

Objectives of the project: Had to create a web page for the station where my role including managing backend

Tool used: FastAPI, PostgresSQL, Docker, Github

Details of Papers/patents: NA

Brief description of the working environment: The mentors was really friendly and ready to help always. Cleared all the doubts and helped me learn everything which as all was new to me.

Academic courses relevant to the project: NA

Learning Outcome: Learnt about FastAPI and PostgresSQL and their use

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PS-I station: National Capital Region Transport Corporation Ltd., Delhi

Student

Name: BHUVANYU KUMAR SHARMA .(2023A2PS0244P)

Student Write-up:

PS-I Project Title: Sarai Kale Khan RRTS Station

Short Summary of work done: During my Practice School-I at NCRTC, I was engaged in structural drawing interpretation and reinforcement verification tasks. I began by studying General Arrangement Drawings (GADs) to understand the spatial configuration and connectivity of structural components such as piers, slabs, and beams. This helped me grasp the construction sequence and design intent. I then focused on analyzing Bar Bending Schedules (BBS) to interpret bar shapes, diameters, lengths, bend angles, and lap lengths. I assisted site engineers in cross-verifying actual reinforcement placement with BBS and GADs, identifying any mismatches or deviations. In addition to drawing-based work, I observed and learned on-site processes including bar cutting, bending, tagging, and fixing. I was also involved in basic quality checks such as verifying rebar spacing and concrete cover using measuring tools. Overall, the internship provided hands-on exposure to the coordination between design and execution in civil construction, deepening my understanding of structural detailing and reinforcement practices.

Objectives of the project: To understand and interpret General Arrangement Drawings (GADs) used in large-scale infrastructure projects. To study and analyze Bar Bending Schedules (BBS) for reinforcement detailing, estimation, and compliance. To assist in on-site verification of reinforcement as per structural drawings. To gain exposure to the coordination process between design teams and execution teams.

Tool used: AutoCAD / 2D Drawing Viewer – for reviewing GADs and BBS. Pear Schedule – for tracking reinforcement schedules. Measuring Tape, Cover Blocks, and Vernier Caliper – for on-

site rebar verification. Microsoft Excel / PDF Annotator – for documentation and comparison of drawing data.

Details of Papers/patents: None

Brief description of the working environment: I really enjoyed my experience here.

Academic courses relevant to the project: Surveying, Engineering Drawing, Mechanic of Solids, Analysis of Strature, Fluid Mechanics, Soil Mechanics, Highway Engineering, CEM

Learning Outcome: Acquired practical knowledge of structural drawings and detailing for civil engineering elements.
Learned to interpret BBS: bar marks, diameters, lap lengths, and shape codes.
Understood how to verify rebar placement and identify mismatches between design and execution.
Gained insight into quality control processes like checking spacing, cover, and tagging of rebars.
Improved technical communication and reporting during site coordination tasks.

PS-I station: National Capital Region Transport Corporation Ltd., Delhi

Student

Name: PIYUSH SRIVASTAVA(2023A7PS0405G)

Student Write-up:

PS-I Project Title: Real time driver drowsiness detection

Short Summary of work done: The project focused on developing a real-time, camera-based driver drowsiness detection system using a single forward-facing camera. Eye landmarks (17 points per eye) were extracted from each frame using MediaPipe Face Mesh, normalized for translation, rotation, and scale, and assembled into fixed-length 12-frame sequences. A compact 1D-CNN model was designed to classify each sequence as “alert” or “drowsy,” trained on a diverse dataset combining public (DROZY, YAWN) and in-house recordings. The model achieved 95.9 % validation accuracy, an F1-score of 0.89, and a low 4.3 % false drowsy rate,

outperforming traditional PERCLOS thresholding and LSTM baselines. Inference was optimized to run at 8 FPS on Apple M1 hardware, meeting real-time requirements. The final system issues visual/audible alerts for drowsiness, demonstrating potential for in-vehicle safety applications.

Objectives of the project: Extract and normalize eye landmarks using MediaPipe Face Mesh.

- Model temporal blink/eye-closure patterns using 1D-CNN over 12-frame windows.
- Design a compact (< 35 K parameters) real-time classification model for "alert" vs. "drowsy."
- Achieve high detection accuracy (> 90 %) with low false-alarm rate (< 5 %) on commodity hardware.
- Deliver a Python-based real-time alert system.

Tool used:

- Software: Python, TensorFlow/Keras, OpenCV, MediaPipe, NumPy, Docker
- Hardware: Apple M1/M1 Max MacBook, standard webca

Details of Papers/patents: N/A

Brief description of the working environment: The work environment encouraged applied research in computer vision with a focus on practical deployment. Expectations included developing a working prototype capable of real-time inference, documenting technical decisions, and benchmarking performance against existing methods. The internship provided exposure to end-to-end ML pipeline development—from dataset preparation and preprocessing to model design, training, evaluation, and optimization for deployment. Significant learning included effective use of 1D-CNNs for temporal data, importance of robust preprocessing under varied real-world conditions, and strategies for reducing false positives in safety-critical systems.

Academic courses relevant to the project: Machine Learning
Deep Learning
Digital Image Processing
Computer Vision
Data Structures and Algorithms
Pattern Recognition

Learning Outcome: Understanding and implementing temporal feature modeling for video sequences.

- Designing lightweight CNN architectures optimized for real-time inference.
- Applying landmark normalization techniques for robustness to orientation, lighting, and scale changes.
- Mastery of data preprocessing, augmentation, and evaluation protocols for computer vision tasks.
- Hands-on experience with real-time deployment on edge hardware.

PS-I station: National Stock Exchange of India Limited, Mumbai

Student

Name: GUNNANDI JAIN .(2023B3A70813P)

Student Write-up:

PS-I Project Title: Insider Trading Detection using Machine Learning Models, Creating a RAG Based NL to SQL Chatbot

Short Summary of work done: Pre-midsem, all the work was done on the ML project, except for learning the many different things they told us in the first 2 weeks. In the first project, I had to generate a report explaining insider trading and proposed machine learning models to detect it. I began by reading papers on this subject and got an idea of the existing models being used. Then I went to try different models, supervised and unsupervised models, and evaluated their performance on a synthetic dataset that modelled trading data. A big issue of overfitting occurred as the dataset was synthetic. Overall, it was a great project that exposed us to machine learning, deep learning, etc. Post mid-semester, all the work revolved around the creation of the chatbot. Around 8-10 people worked on this project, and we developed a chatbot based on RAG, which was meant for NSE employees to easily access information from databases without writing SQL queries. There were three layers to this- a simple user interface for interaction, an application logic layer that processes and understands requests, and a secure data layer that organizes information. We built it on Streamlit as a proof of concept, tried different open-source models like DeepSeek R1, SQLCoder, Mistral, etc., and added role-based access control for security. The project was a great learning opportunity as I got to learn how do chatbots and LLMs work, RAG which included embedding data in vectors and indexing it, etc.,

Objectives of the project: 1. To understand the malpractice known as insider trading and study, review, test and compare machine learning models for its detection. 2. Create a chatbot that converts natural language prompts to SQL and fires that query giving output in the form of table, graphs, etc., as desired. The chatbot should also run locally as use no APIs for security reasons.

Tool used: Python, Scikit-learn, Matplotlib, Plotly, Pandas, Streamlit, Ollama, FAISS, etc.,

Details of Papers/patents: NA

Brief description of the working environment: The working environment was great, .We were initially in a different office and had to shift midway to the headquarters. Both the offices were great, the first one being more employee-friendly. The employees there were helpful and

welcoming as well. The team was young, as most had joined the company around a year ago. We also did not get access to their system, as the data was confidential. Our mentor made it clear in the beginning that they wouldn't be able to allocate assets to us for just 2 months, and there wouldn't be a dedicated project just for us; instead, they would pull us into their ongoing projects wherever they deemed fit. Also, the employees are very busy, so they don't keep a check on the work assigned to us. So, being proactive in giving them updates and asking for work from different people was necessary. There were many conversations we had with other team members, which they referred to as KT (Knowledge transfer), in which they explained to us either different concepts about data engineering, data science, or the field they specifically worked in, as well as told us about the tools that they use, which acted as encouragement to learn. NSE was one of the few stations that paid a stipend as well.

Academic courses relevant to the project: NA

Learning Outcome: Learnt machine learning, SQL, RAG directly because of the project. Also learnt a lot about data engineering and the tools used here as well as the underlying technology like hadoop, spark, etc., because of being a part of the data warehousing department during this internship.

PS-I station: National Stock Exchange of India Limited, Mumbai

Student

Name: NEIL ANURAG VERMA .(2023B3A70945P)

Student Write-up:

PS-I Project Title: Detection of Insider Trading using Machine Learning Algorithms, Development of RAG based SQL Chatbot

Short Summary of work done: In the 1st half, our work was to use machine learning to detect market manipulation such as layering, spoofing. The second half involved creating a chatbot to convert natural language into SQL. It was a challenging but rewarding experience

Objectives of the project: Create a chatbot which converts natural language to sql queries and runs them, use machine learning to detect trading anomalies

Tool used: Python, Langchain, Jupyter Notebook, PySpark

Details of Papers/patents: None

Brief description of the working environment: Working environment is excellent. Most of the mentors are relaxed and allow things to get done at their own pace, providing guidance wherever required. There is an expectation of staying in office for 6-7 hours, but all facilities including free lunch, highly subsidised snacks and office buses are provided. In the exchange plaza office, all the team members are on the same floor so there was a good deal of interaction and learning for the interns. Overall, excellent if not a bit slow working environment with lot of room for growth

Academic courses relevant to the project: CP, DBMS, DRM

Learning Outcome: Got exposure to a lot of tech concepts, industry practices and corporate environment.

PS-I station: Nitisara - Research, Shahdara

Student

Name: NITEEN YADAV(2023A4PS1086G)

Student Write-up:

PS-I Project Title: Research on alternative fuels of maritime

Short Summary of work done: We worked on blogs, for the companies website

Objectives of the project: Internal venture analysis

Tool used: Nil

Details of Papers/patents: Nil

Brief description of the working environment: It was online and we had to give brief on our report 2 times a week.

Academic courses relevant to the project: yes

Learning Outcome: Data reading

PS-I station: Nitisara - Research, Shahdara

Student

Name: HARSH KAUSHIK .(2023A7PS0514P)

Student Write-up:

PS-I Project Title: Procuretech product

Short Summary of work done: Developed

Objectives of the project: Develop UI/UX for the company website

Tool used: Hardware: Standard workstation (Linux/Windows machine) Software: Frontend: React.js, Tailwind CSS, ShadCN/UI, Framer Motion Backend/Services: Node.js, Express.js Database: MongoDB / PostgreSQL (depending on usage)

Details of Papers/patents: None during the PS-I project.

Brief description of the working environment: The working environment at Nitisara was highly collaborative and startup-oriented, where innovation and ownership were encouraged. As interns, we were expected to contribute to the design and development of the Smart RFQ (Request for Quotation) platform, which aims to streamline procurement workflows by enabling features like product information management, quotation comparison, contract management, tracking & tracing, and negotiation history.

The company provided opportunities to work on full-stack development, particularly with React-based frontend and modern UI/UX frameworks. We were encouraged to explore scalable design patterns, responsive layouts, and real-time data handling for procurement systems.
During PS-I, I learned how to design modular React components, integrate APIs, implement state management, and improve user experience with animations. Additionally, I gained practical exposure to project collaboration using GitHub, writing clean documentation, and following Agile methodologies in a professional environment.
This experience enhanced my technical expertise, problem-solving ability, and understanding of how software solutions contribute to real-world procurement processes

Academic courses relevant to the project: Object Oriented Programming (OOP)
Database Systems
Software Engineering
Computer Networks
Web Programming
Operating Systems

Learning Outcome: Learnt react js, team lead

PS-I station: Nitisara - Research, Shahdara

Student

Name: KANAK KANSAL .(2023A7PS0531P)

Student Write-up:

PS-I Project Title: Supply Chain Management and Financing

Short Summary of work done: Wrote research articles on 10 different domains under supply chain financing, also worked on an industry level project (confidential)

Objectives of the project: Prospect of a digital marketplace in fishery supply chain, exploring loopholes and bottlenecks in supply chain financing, educating researchers, importers and exporters regarding incentives and schemes available, solutions for concrete documentation required at different stages before and after transit.

Tool used: Google docs, google sheets

Details of Papers/patents: None

Brief description of the working environment: Exploring the domain of finance.

Academic courses relevant to the project: Principles of economics

Learning Outcome: Supply Chain Financing, Industry appropriate report writing, adjusting to corporate environment

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PS-I station: Phodu Club - Tech, Panaji

Student

Name: SOHAM DAMBALKAR(2023A7PS0343G)

Student Write-up:

PS-I Project Title: Tech Platform Overhaul

Short Summary of work done: Phodu Club was building their own test series platform instead of relying on outsourced software for their test series platform. Got to learn full stack development, and was able to contribute one module of back end services to the project.

Objectives of the project: -To contribute backend services to their test-series platform

Tool used: Typescript, Next.js, Postgres

Details of Papers/patents: None

Brief description of the working environment: I learned the importance of professionalism, time management, and responsibility.

Academic courses relevant to the project: Database Management Systems course concepts came in handy while writing back end code.

Learning Outcome: Full stack development, Next.js, Typescript

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PS-I station: PIEDS online, Online

Student

Name: DEBANJAN KAKATI(2023A1PS0093G)

Student Write-up:

PS-I Project Title: Startup Mentorship, AI & DeepTech Research, and Venture Capital Analysis

Short Summary of work done: At PIEDS, I mentored early-stage startups, reviewed pitches, and helped design a scalable mentorship framework. I conducted a detailed study on India's AI/DeepTech ecosystem using data from NASSCOM and Stanford. I supported portfolio companies by tracking KPIs like ARR and CAC, preparing investor updates, and assisting with LP reporting. I also created a founder onboarding schedule and delivered a final presentation summarizing key learnings.

Objectives of the project: Support and mentor early-stage startups incubated at PIEDS Conduct deep research on India's AI and DeepTech startup ecosystem Assist in venture capital analysis, investor matching, and portfolio management Develop scalable mentorship frameworks and onboarding schedules

Tool used: Google Suite, Excel, PowerPoint, Canva, public datasets

Details of Papers/patents: None

Brief description of the working environment: The environment at PIEDS was collaborative and learning-focused. I was encouraged to take initiative, contribute to startup programs, and engage directly with founders and mentors. I gained practical insight into entrepreneurship, venture support, and strategic thinking.

Academic courses relevant to the project: Entrepreneurship, AI, Data Science, Financial Management

Learning Outcome: Hands-on experience in startup evaluation and mentoring
Research on AI/DeepTech trends and VC dynamics
Exposure to KPI tracking, investor updates, and LP reporting

PS-I station: PIEDS online, Online

Student

Name: PRATHIK PRASHANT AMTE(2023A3PS0513G)

Student Write-up:

PS-I Project Title: Instrumentation of Glucose sensing

Short Summary of work done: The project focused on understanding the instrumentation behind glucose sensing and simulating the core functional blocks of a glucometer. The work was divided into two main parts: analog signal processing and digital processing using a microcontroller. In the first part, the biochemical principle of glucose measurement was studied, where the reaction between glucose and the enzyme glucose oxidase generates electrons, producing a microamp-level current. This concept was simulated in LTspice by designing a transimpedance amplifier using an op-amp and a feedback resistor. The amplifier converted the small input current into a measurable voltage signal, and the role of noise filtering through a low-pass filter was analyzed to ensure signal stability before digital processing. The second part focused on understanding how a microcontroller processes such signals. Using Arduino UNO, experiments were conducted on LED control and PWM-based dimming to learn essential microcontroller concepts like GPIO handling, timing, loops, and conditional logic. These experiments provided practical insights into how a microcontroller in a glucometer reads analog signals, converts them via ADC, applies calibration algorithms, and displays glucose values. Through this project, I gained a comprehensive understanding of the integration between analog front-end circuitry and embedded systems for real-world biomedical instrumentation applications.

Objectives of the project: To design and understand the instrumentation system used in glucose sensing, including the analog signal acquisition and amplification stages (simulated using LTspice) and the digital processing stage (explored through Arduino UNO), in order to replicate the core working principles of a glucometer.

Tool used: Hardware: Arduino UNO (ATmega328P microcontroller) LED and Resistors (for PWM-based experiments) Software: LTspice – For analog circuit simulation (op-amp based transimpedance amplifier and signal analysis) Arduino IDE – For programming and testing microcontroller functions (PWM, GPIO control)

Details of Papers/patents: None

Brief description of the working environment: The PS-I program provided a structured and supportive environment to gain practical exposure to real-world engineering applications. The working environment emphasized self-learning through simulations, coding, and technical exploration, while maintaining regular interaction with mentors for guidance. Access to development tools such as LTspice for circuit simulation and Arduino IDE for programming enabled me to apply theoretical knowledge to practical tasks.
My initial expectations from the company were to understand the functioning of biomedical instrumentation, particularly glucometers, and learn how different components—analog circuits, sensors, and microcontrollers—integrate into a complete system. The focus was also on developing problem-solving skills and gaining hands-on experience with widely used tools in the electronics industry.
During PS-I, I achieved these objectives by simulating signal amplification using an op-amp-based circuit in LTspice and implementing microcontroller programs using Arduino UNO to explore PWM control and basic embedded concepts. This experience helped me understand the complete signal flow—from sensor-generated microamp-level currents to voltage amplification, noise filtering, analog-to-digital conversion, and final data processing. The learning extended beyond technical skills, improving my ability to research, document, and present work effectively. Overall, the internship bridged the gap between academic concepts and practical implementation.

Academic courses relevant to the project: Microelectronic Circuits
Digital Design
Signals & Systems
Control Systems
Microprocessor & Interfacing

Learning Outcome: Understanding Signal Origin: Learned how glucose-enzyme reactions generate electrical signals (microamp-level current) in glucometers.
Analog Front-End Simulation: Modeled signal amplification using an op-amp in LTspice and understood the role of feedback resistors and noise filtering (LPF).
Microcontroller Functionality: Gained practical experience in core microcontroller concepts such as PWM, loops, timing, and conditional logic using Arduino UNO.

Integration of Analog and Digital Processing: Understood how analog signals are amplified, filtered, digitized (ADC), and processed to compute glucose values in real biomedical devices.

PS-I station: PIEDS online, Online

Student

Name: ARYA SACHIN SURYAWANSHI(2023A4PS0297G)

Student Write-up:

PS-I Project Title: Startup incubation program creation

Short Summary of work done: I was able to manage bits startup and diagnose issues in their growth and management.Also planned an incubator program to boost startup.

Objectives of the project: Creating well versed project for startups

Tool used: Canva , excel ,python ,sql,

Details of Papers/patents: None

Brief description of the working environment: As the work was remote their was not much interaction colleagues.

Academic courses relevant to the project: Python from ps1 website

Learning Outcome: Learned python sql excel and canva

PS-I station: PIEDS, Pilani, Pilani

Student

Name: KARTHIK KHANNA(2023B1A41212G)

Student Write-up:

PS-I Project Title: Incubating Medtech Startups

Short Summary of work done: Various work was given to me in terms of video editing dbms development and also database development along with web development

Objectives of the project: To incubate medtech startups by aiding them with technical work

Tool used: Access,Premiere Pro,Visual Studio

Details of Papers/patents: Not yet

Brief description of the working environment: Amazing environment and friendly staff

Academic courses relevant to the project: DBMS,CAD,WEBsev

Learning Outcome: Learnt DBMS,SQL,Web Dev

PS-I station: Pockvue Solutions Pvt. Ltd - Non Tech, Bengaluru

Student

Name: FAIZ ALAM KHAN(2023A8PS0818G)

Student Write-up:

PS-I Project Title: Go to Market(GTM) Strategies

Short Summary of work done: My work mainly involved organising the raw data the company got from its sources and to organise them using pivot tables, and then noting down values of important categories , and check if there are any unusual changes which happened compared to the general trend. This data is used to understand how the advertisements work in different places, and what possible changes would likely better the overall performance.

Objectives of the project: Finding ways to increase sales

Tool used: MS Excel/Google Sheets, VS Code(for the python program part),MS word, browser.

Details of Papers/patents: None

Brief description of the working environment: It is a small and cozy working environment.

Academic courses relevant to the project: Economic related courses, but not much

Learning Outcome: How marketing works, how social media impacts when it comes to advertising, which platforms to use when aiming to target specific people, what ways to best keep people engaged.

PS-I station: Pockvue Solutions Pvt. Ltd - Tech, Bengaluru

Student

Name: SRAVYA VARADA .(2023A7PS0045P)

Student Write-up:

PS-I Project Title: AI - Powered Educational Tools for Financial Literacy and Evaluation Systems

Short Summary of work done: During my 52-day internship at Pockvue Solutions Pvt. Ltd., I worked on three AI-powered educational projects. The first was an Automated MCQ Generator that created high-quality financial literacy questions for Grades 5–12. I used a hybrid T5 + GPT-4 model in a Retrieval-Augmented Generation (RAG) pipeline, followed by classification based on Bloom's taxonomy and difficulty scoring. The second was a Secure Online Proctoring System with webcam, mic, and screen monitoring using OpenCV, Django, and local audit logging. It

incorporated HAAR-based face/eye detection, gaze tracking, risk scoring, and AES-encrypted logs. The third project was a Financial Literacy Game for Parents built with Pygame, integrating GPT-4 for scenario generation. This game simulated investment decisions, adjusting difficulty based on user streaks and score, aiming to teach core financial concepts. These projects allowed me to integrate cutting-edge NLP, CV, and game design technologies, while solving real-world problems in EdTech and assessment.

Objectives of the project: Develop AI-assisted tools to improve financial literacy and assessment. Automate MCQ generation using T5 and GPT-4 with RAG architecture. Design a secure local proctoring system emulating Safe Exam Browser standards. Create an interactive game to teach parents investment principles via scenario-based gameplay.

Tool used: Software: Python, Jupyter, Django, OpenCV, Pygame, HuggingFace Transformers, OpenAI API, Sounddevice, PyTorch, PyAutoGUI, PostgreSQL, OpenPyXL Hardware: Standard development laptops (Windows/Linux), webcam and microphone for proctoring system testing

Details of Papers/patents: No formal papers or patents were filed during the internship, though work drew from and implemented methods in published papers (e.g., Lewis et al., 2020 on RAG; Raffel et al., 2020 on T5; OpenAI, 2023 on GPT-4).

Brief description of the working environment: The internship at Pockvue Solutions offered a dynamic and startup-driven working environment. As a fintech company with an EdTech focus, the team encouraged innovation and independent exploration. Daily stand-ups and weekly reviews helped align expectations with deliverables. I received hands-on mentoring from experts across finance, AI, and software domains. My contributions were expected to be production-ready, particularly in secure proctoring and question generation pipelines. The work was intellectually demanding but deeply rewarding, offering exposure to real-world problems and user-facing applications. I appreciated the flexibility to experiment with different technologies (e.g., Django for backend, GPT-4 for game logic) and the emphasis on measurable impact—whether through metrics like BLEU/BERTScore for MCQs or screen/mic accuracy in proctoring. The overall environment promoted proactive learning, efficient collaboration, and creative problem solving.

Academic courses relevant to the project: Artificial Intelligence
Natural Language Processing
Computer Vision
Software Engineering
Data Structures and Algorithms
Operating Systems

Learning Outcome: Proficiency in integrating AI models (T5, GPT-4) for educational content creation.
Hands-on experience with secure exam technologies (OpenCV, Django, AES encryption).
Understanding of gamification and AI-driven content generation using Pygame and OpenAI API.
Practical knowledge of data logging, proctoring metrics, and UX design for educational platforms.

PS-I station: Samvardhan Greenfields LLP - Tech, Hyderabad

Student

Name: SRIRAM UDHAYAKUMAR .(2023A2PS1370H)

Student Write-up:

PS-I Project Title: Exploring Short Term Rentals

Short Summary of work done: During my internship, I analyzed monetization strategies for 79 residential units (34 2BHKs and 45 3BHKs) in gated communities in Patancheru, Hyderabad. I began by exploring multiple models including co-living (like Stanza Living), corporate housing, wellness retreats, and Airbnb rentals. I developed a detailed Airbnb operating guide covering workflows, guest handling, and pricing strategy, but eventually pivoted toward long-term rental due to feasibility constraints. I then engaged with property management vendors, collecting proposals from Housewise, NoBroker, and SafeKeys. For each, I built long-term financial projections using base rent assumptions, occupancy estimates, fee structures, and capital appreciation over a 20-year horizon. I calculated Net Present Value (NPV), Internal Rate of Return (IRR), ROI, and total cash inflows, allowing for a comparative evaluation of each offer. Additionally, I proposed a pilot strategy to test multiple monetization methods on a limited number of units before large-scale implementation. The experience deepened my understanding of residential property management, financial modeling, and investment strategy in real estate. It also gave me practical exposure to vendor evaluation and the operational considerations behind deploying large rental portfolios.

Objectives of the project: To evaluate and compare long-term rental monetization strategies for a large residential portfolio by analyzing proposals from property management firms and developing a data-driven financial model.

Tool used: Excel, Airbnb

Details of Papers/patents: N/A

Brief description of the working environment: The working environment during my Practice School-I internship was structured yet flexible, allowing me to explore ideas independently while receiving timely guidance from my mentor. I was entrusted with high-level responsibility early on, which involved evaluating monetization strategies for a large residential inventory in Patancheru, Hyderabad. Expectations from the company were clear: conduct market research, identify feasible business models, and produce financial projections detailed enough to support real-world decision-making. This pushed me to maintain professional standards in communication, analysis, and documentation.

The company encouraged critical thinking and welcomed unconventional proposals, which allowed me to explore options like wellness-themed Airbnb stays and corporate retreats before pivoting toward long-term rentals. I interacted directly with property management firms, negotiated for information, and evaluated proposals on both operational and financial grounds. This provided valuable exposure to how business decisions are shaped by on-ground constraints, third-party partnerships, and long-term value generation.

From a learning perspective, the internship helped me strengthen core business skills like Excel modeling, investment analysis, and cashflow forecasting, as well as softer skills like structuring business communication and presenting findings. I also developed a practical understanding of how real estate portfolios are managed and monetized in India.

Academic courses relevant to the project: N/A

Learning Outcome: Conducted detailed market research and financial analysis for 79 residential units in Patancheru, Hyderabad, exploring monetization models such as Airbnb, co-living, and corporate rentals, and prepared a comprehensive Airbnb operations guide tailored to the property and target segment.

Built long-term financial projections for each firm's proposal, incorporating rental cashflows, leasing fees, capital appreciation, NPV, and IRR calculations, and proposed a pilot strategy to test multiple monetization approaches on a small sample of units prior to full-scale deployment.

Gained practical insights into the real estate property management sphere, including pricing strategies, operational models, and partner evaluation in the context of long-term rentals.

PS-I station: Samvardhan Greenfields LLP - Tech, Hyderabad

Student

Name: AALHAD SAWANE(2023A7PS0476G)

Student Write-up:

PS-I Project Title: Strategic Analysis and Outreach for Hands-Free Airbnb Property Commercialization

Short Summary of work done: My PS-I internship focused on commercializing properties for high-yield, hands-free short-term rentals. I initiated the project with comprehensive market research, identifying and vetting numerous potential management partners across the industry. My core work involved strategic outreach, engaging with key stakeholders through various communication channels to present partnership opportunities and negotiate terms. I actively managed challenges such as company unresponsiveness and specific operational limitations, applying persistent problem-solving to advance discussions. Through dedicated follow-up, I successfully secured site visits with a promising partner, leading to progression towards formal proposals. This process yielded critical insights into industry practices and partner capabilities. Beyond direct engagement, I organized an extensive database of professional contacts and culminated the internship by delivering a comprehensive project presentation.

Objectives of the project: To identify and secure suitable Airbnb management partners for properties in Hyderabad, aiming to convert them into high-yield, hands-free short-term rentals. To conduct thorough market research and execute strategic outreach to maximize rental income and operational efficiency for the properties.

Tool used: Hardware: Smartphone, Laptop Software: Google (for research), LinkedIn, Facebook (for validation), PerplexityAI (for initial insights), Google Sheets (for data compilation), Google Slides (for presentations), Email clients, WhatsApp

Details of Papers/patents: N/A

Brief description of the working environment: The working environment during my PS-I was primarily independent and dynamic, requiring significant self-motivation and initiative. While I had regular check-ins, much of the research and outreach was self-driven, allowing for flexibility in how I approached tasks. The company expected proactive engagement, persistent follow-up on leads, and a problem-solving mindset to navigate the complexities of securing management partnerships. There was a strong emphasis on generating tangible progress and providing actionable insights. A key learning was understanding the "real-world" pace of business development, where processes can be slow and require immense patience and repeated effort. I learned that direct communication, even when challenging, is crucial, and that adaptability is vital when initial plans or preferred partners don't materialize. This internship truly taught me

how theoretical business concepts translate into practical, often challenging, day-to-day operations.

Academic courses relevant to the project: PoM

Learning Outcome: Market Analysis & Business Development: Gained practical skills in identifying market opportunities, competitor analysis, and strategic partner selection.
Sales & Persuasion: Developed effective communication and negotiation tactics for engaging business stakeholders and converting leads into tangible progress.

PS-I station: Samvardhan Greenfields LLP - Tech, Hyderabad

Student

Name: LAVISH TRIPATHI .(2023ABPS0800P)

Student Write-up:

PS-I Project Title: Web Development

Short Summary of work done: First we decided the design of the website and with then finalized it . After that the development work was started and it took time of about 2 weeks . Then the final website was deployed on internet and is ready for use .

Objectives of the project: To create and deploy website for a company.

Tool used: Html,css, javascript

Details of Papers/patents: No

Brief description of the working environment: Good working environment and no pressure during work, learnt how to adjust to corporate life and work well .

Academic courses relevant to the project: yes

Learning Outcome: How to build a website and deploy it on internet.

PS-I station: Samvardhan Greenfields LLP - Tech, Hyderabad

Student

Name: ADIT TIWARI .(2023B1A40869P)

Student Write-up:

PS-I Project Title: Website development

Short Summary of work done: We developed a website for Panchakshar Corporation, a different company. We used figma to design, html and css to create the style and React Js to make the site responsive. The site was published on google using a domain they bought and is live at panchakshar.com This process took us exactly 4t days.

Objectives of the project: Develop a website for an export company

Tool used: HTML, CSS, React Js, Figma

Details of Papers/patents: None

Brief description of the working environment: Working with the company was very enriching.

Academic courses relevant to the project: yes

Learning Outcome: Web Development, and SEO Optimization

PS-I station: SBI Bengaluru, Commercial Clients Group Regional Office - IFB, Bengaluru

Student

Name: AADYANT LAHIRI .(2023B3AA1191H)

Student Write-up:

PS-I Project Title: Credit appraisal for high value credit with specific focus on power and real estate industry.

Short Summary of work done: Our project involved an active participation in the loan appraisal process. We were tasked with lending a helping hand to the credit analysts in their due diligence process. This involved verifying a multitude of data from RBI websites, internal SBI lists and physical reports prepared by other companies and organisations. In the process, we learned a lot about the different parameters which a banker would look at before sanctioning a loan. Towards the end of the PS programme, we also learnt about the different steps taken for monitoring the organisation after a loan has been sanctioned.

Objectives of the project: Learning about the loan appraisal process, credit analysis and the due diligence process.

Tool used: Microsoft Word, Microsoft Excel, internal SBI software.

Details of Papers/patents: NA

Brief description of the working environment: The work environment was relaxed but highly productive. None of the bank personnel were complacent or tardy with their work. At the same time, they were friendly and created an environment which supported our endeavours despite their busy schedule.
Apart from the important financial and legal learning outcomes, we also learned the much needed communication skills by interacting with different employees. It was quite intriguing to observe the manner in which different departments in the same organisation intertwine to add to a productive process.

Academic courses relevant to the project: Fundamentals of Finance and Accounting (FOFA), Financial Management (FM), Business Analysis and Valuation (BAV), Macroeconomics.

Learning Outcome: Due diligence processes for loan sanctioning.
Post sanctioning processes.

PS-I station: SBI Chennai, Branch - Savings Bank & Current Account, Chennai

Student

Name: JENY JOMON .(2023A5PS1194P)

Student Write-up:

PS-I Project Title: Case Study on Assessment of NPA Management and Recovery Mechanisms in SBI

Short Summary of work done: During my PS-I internship at SBI Selaiyur Branch, I worked on the project "Assessment of NPA Management and Recovery Mechanisms in SBI." The work involved studying the classification of NPAs, analyzing decade-long trends in SBI's NPA levels, and understanding the role of RBI guidelines and recovery frameworks like the IBC and SARFAESI Act. I also conducted a peer comparison with banks such as ICICI, HDFC, Bank of Baroda, and Ujjivan Small Finance Bank to evaluate SBI's relative performance. Additionally, I explored real-world case studies like Essar Steel and DHFL to understand recovery through IBC, and assessed the effectiveness of in-house mechanisms like Lok Adalat, Debt Recovery Tribunals, and compromise settlements. My work concluded with recommendations to strengthen recovery, including enhanced digital tools and forensic audits. This experience significantly improved my analytical, research, and presentation skills, as well as my understanding of the operational challenges in India's banking sector.

Objectives of the project: The objective of my project was to conduct an assessment of Non-Performing Asset (NPA) management and recovery mechanisms at the State Bank of India (SBI). The focus was on understanding SBI's approach to handling NPAs, evaluating the impact of regulatory reforms like the SARFAESI Act, and studying sector-wise NPA trends. The project also aimed to benchmark SBI's performance against peer banks to identify best practices and areas for improvement in recovery strategies.

Tool used: Microsoft Excel, Microsoft PowerPoint, Microsoft Word, Internal SBI databases

Details of Papers/patents: None

Brief description of the working environment: The working environment at the SBI Selaiyur Branch was professional and structured, yet the staff were approachable and open to discussions. My mentor and other officers provided guidance on understanding the intricacies of NPA handling and recovery mechanisms. Throughout the internship, I had the opportunity to observe how theoretical financial concepts are applied in real banking operations. I learned about the practical challenges faced by banks, such as legal delays, sector-specific risks, and the

enforcement of recovery laws. This exposure helped me understand the limitations of policy on the ground and the importance of strategic and technological interventions in improving recovery rates. The experience also enhanced my skills in data analysis, report writing, and presentation.

Academic courses relevant to the project: All ECON courses

Learning Outcome: During the course of this project, I gained a deep understanding of how NPAs are classified, the methods used for provisioning, and the recovery mechanisms prevalent in the Indian banking sector. I developed familiarity with key financial regulations, including RBI guidelines, Basel III norms, and legal frameworks such as IBC and SARFAESI. Additionally, I enhanced my data analysis skills, learned how to interpret financial statements related to asset quality, and improved my ability to draft comprehensive reports with strategic insights.

PS-I station: SBI Chennai, Small Medium Enterprises City Credit Centre - Business Loans, Chennai

Student

Name: KIRAN S .(2023B2A10924P)

Student Write-up:

PS-I Project Title: A study of SBI SME loan schemes and post-sanction monitoring practices

Short Summary of work done: Initially we studied about MSME and its schemes. Later we worked with the marketing team on how they go about any leads they get to increase the bank's output. Then we moved to processing team and got to know about they go about the proposals available and processes it. Then we were with the documentation team to gain experience about how they deal with customers post sanction and how they explain the needed to the customer. Later we worked with the maintenance team and gained experience about how post sanction inspections are done and how they deal with NPA and SMA customers.

Objectives of the project: Gain knowledge about the various schemes of MSME sanctioned in the bank and the work with the different teams of the bank

Tool used: -

Details of Papers/patents: -

Brief description of the working environment: It was a very good experience and I enjoyed my time here since all the employees are so kind expect two people. One is our AGM who needs to be how he is to run the place and the other is CM sir who was a bit strict and kind of a conservative person. You can expect to learn a lot on how the bank works along with a few more skills like how to prepare for a bank exam and how to work with excel sheets if you find the right persons.

Academic courses relevant to the project: FUNDAFIN (that too isn't really necessary since they'll explain from scratch)

Learning Outcome: Get a hand on experience on how a SME loan is sanctioned and how pre sanction discussion and post sanction inspections are done.

PS-I station: SBI Hyderabad, Branch Operations SME Branch, Saifabad, Hyderabad

Student

Name: DHRUVA CHARAN K .(2023A4PS1381H)

Student Write-up:

PS-I Project Title: Compliances in Loans and Forex processes

Short Summary of work done: Briefly went through balance sheets of few companies which submitted their documents for loan application process and also had a second hand check of various compliances checklist after the sanctioning and before disbursement. In the forex department, we were mainly explained the import and export process and the importance of RBI, FEMA and various regulatory bodies which govern the trade worldwide and also the importance of banks in the issue of LCs which aid for the smooth functioning of the financial system in Forex payments.

Objectives of the project: To understand various branch operations such as compliances in loan processes and various functions of Forex department

Tool used: NA

Details of Papers/patents: NA

Brief description of the working environment: I learned new tools, work processes, and how to handle challenges calmly.

Academic courses relevant to the project: Fundamentals of Financial Accounting

Learning Outcome: Got a clear overview of work gets done in a corporate setting, the background process while sanctioning a SME loan and also the proper step by step procedure and compliances in an import/export process.

PS-I station: SBI Hyderabad, Commercial Clients Group Regional Office CCG Hyderabad Forex, Hyderabad

Student

Name: VAISHNAVI SRI MAHATHI BALANTRAPU(2023A5PS1026H)

Student Write-up:

PS-I Project Title: 1)Money laundering and it's prevention 2) Strengthening risk management in pharmaceutical sector

Short Summary of work done: During my PS-1, I initially focused on money laundering detection, specifically Trade-Based Money Laundering (TBML). I developed a Tkinter-based tool with web scraping capabilities to detect misinvoicing patterns in cross-border trade. In the second phase, I worked on the pharmaceutical sector, where I applied quantitative risk analysis by automating the calculation of Value at Risk (VaR) and Expected Shortfall (ES) using Python. This helped in assessing potential financial risks and improving decision-making frameworks. My overall experience bridged technology, finance, and pharma, enhancing my problem-solving, coding, and analytical abilities.

Objectives of the project: 1) To prevent trade based money laundering in forex market 2) To quantify risk management in pharmaceutical sector

Tool used: Beautiful soup for web scrapping,tkinter ,python

Details of Papers/patents: None

Brief description of the working environment:
One can learn a lot from the ccg branch if they want to learn.We need to keep asking them questions to learn .There is not much spoon feeding , the intern should take initiative and interact with everyone in the branch .Once we start asking questions people here are having enough patience to answer our questions.
We had group lunch,funny banter with managers and a environment where we can ask questions and learn.

Academic courses relevant to the project: Derivatives of risk and management

Learning Outcome: 1)I have understood the working of banks for corporate groups
2)I have got hands on experience on using derivatives like forward contract because it is used a lot in forex trading.
3)I have learnt about the Anti money laundering techniques that banks have adopted

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PS-I station: SBI Hyderabad, Commercial Clients Group Regional Office CCG,Hyderabad

Student

Name: SAI DHEERAJ LANKAMALLA .(2023A4PS0825H)

Student Write-up:

PS-I Project Title: Understanding Commercial Banking Through a Case Study

Short Summary of work done: During my internship my work primarily focused on credit risk analysis and understanding the functioning of commercial credit in a real banking environment.

I was assigned a live project to develop a case study based on an electric bus financing proposal. This involved analyzing stock statements to determine appropriate credit limits for facilities like overdrafts and cash credit, and calculating key financial indicators such as the Debt Service Coverage Ratio (DSCR) using Excel. I also referred to resources like ResearchGate and industry reports to support the case study with relevant data and insights. Through this, I gained practical exposure to how SBI structures and evaluates large corporate loans, and I developed a strong understanding of fund-based and non-fund-based credit facilities, risk assessment, and the overall credit appraisal process.

Objectives of the project: To understand the functioning of commercial banking with a specific focus on structured credit and project finance in a real-world context. To evaluate key financial indicators such as Debt Service Coverage Ratio (DSCR), Internal Rate of Return (IRR), and Return on Capital Employed (ROCE) as part of risk assessment.

Tool used: Excel, ResearchGate

Details of Papers/patents: None

Brief description of the working environment: The working environment at the State Bank of India – Commercial Clients Group, Banjara Hills, was highly professional, collaborative, and conducive to learning. The team maintained a structured workflow, with clearly defined roles and responsibilities across the Account Management Team (AMT-V). I had regular interactions with senior managers and officers who provided mentorship and constructive feedback.

Academic courses relevant to the project: FOFA, DRM

Learning Outcome: The real-world application of financial ratios and sector-specific risk indicators in credit
evaluation and institutional lending decisions. How fund-based credit products like working capital loans and term loans are structured, evaluated, and disbursed. How repayment structures and risk mitigation measures are designed to protect the bank's interest.

PS-I station: SBI Hyderabad, Commercial Clients Group Regional Office IFB Hyderabad

Student

Name: ANOUSHKA VATSA .(2023A1PS0251P)

Student Write-up:

PS-I Project Title: Foreign Trade Operations and Forex Mechanisms: A Regulatory Perspective under FEMA

Short Summary of work done: During my Practice School 1 (PS-1) at the Industrial Finance Branch of the State Bank of India, I focused on understanding the regulatory and operational aspects of foreign trade and forex mechanisms under FEMA. My aim was to develop a practical grasp of how international trade transactions are conducted, monitored, and regulated in India. I began by studying the Foreign Exchange Management Act (FEMA), 1999, focusing on its implications for cross-border trade. I paid close attention to the classification of transactions into current and capital accounts, and how this affects documentation and compliance. Regular interactions with the forex department helped me understand the role of Authorised Dealer (AD) banks in verifying invoices, shipping bills, and remittances. To deepen my understanding, I referred to RBI Master Directions on the Import and Export of Goods and Services. These guidelines clarified procedures, timelines, and reporting norms that banks and customers must follow. I also explored how exchange rates are determined, and how currency risk is managed using instruments like forward contracts. Observing how banks use systems like SWIFT, EDPMS, and IDPMS to track and report transactions gave me a clearer picture of how compliance is ensured in practice. Overall, PS-1 provided me with a structured platform to link academic concepts with real-world banking operations. It strengthened my interest in finance and regulatory compliance and deepened my appreciation of how FEMA facilitates secure and transparent foreign trade in the Indian economy.

Objectives of the project: To understand the legal and regulatory framework governing foreign trade operations in India under the Foreign Exchange Management Act (FEMA), 1999. To examine the classification and treatment of current and capital account transactions in cross-border trade. To explore the role of Authorised Dealer (AD) banks in facilitating and monitoring foreign exchange transactions related to imports and exports. To analyse the procedural requirements, documentation norms, and timelines mandated by RBI Master Directions for foreign trade compliance. To study the key forex mechanisms including exchange rate determination, currency risk management, and hedging tools used in international trade. To identify common compliance issues, reporting obligations, and penalties associated with non-adherence to FEMA provisions. To evaluate the impact of FEMA regulations on the efficiency, transparency, and risk exposure of India's foreign trade ecosystem.

Tool used: Microsoft Word was used extensively for drafting, editing, and formatting the project report, including regulatory notes, transaction case studies, and RBI guideline summaries. It allowed for structured documentation with proper sectioning, references, and footnotes, ensuring clarity and professionalism. Google Slides was used to create the final project presentation, enabling collaborative editing, visual organization of key concepts, and

integration of charts, flow diagrams, and compliance workflows to effectively communicate findings and insights to mentors and peers.

Details of Papers/patents: N.A.

Brief description of the working environment: During my PS-I at the Industrial Finance Branch of SBI, Hyderabad, I experienced a structured and professional working environment focused on large-scale corporate finance and foreign exchange operations. The staff maintained high standards of discipline and compliance, and they were approachable and supportive toward interns. We were expected to observe processes closely, ask relevant questions, and maintain professionalism in our conduct.
I gained practical insights into the application of FEMA regulations, RBI Master Directions, and the role of Authorised Dealer banks in facilitating and monitoring foreign trade transactions. I also understood how systems like SWIFT, EDPMS, and IDPMS are used for transaction reporting and regulatory compliance. Exposure to documentation related to imports, exports, and remittances helped me understand the importance of accuracy and timelines in banking.
The experience deepened my interest in finance and regulatory frameworks, enhanced my analytical and documentation skills, and provided valuable real-world context to my academic learning.

Academic courses relevant to the project: Fundamentals of Finance and Accounting
Derivatives & Risk Management

Learning Outcome: Enhanced understanding of the FEMA framework governing cross-border trade and foreign exchange transactions in India.
Clear distinction between current and capital account transactions and their respective regulatory requirements under FEMA.
Comprehensive knowledge of RBI Master Directions relating to imports, exports, foreign currency dealings, and reporting obligations.
Familiarity with the procedural role of Authorised Dealer (AD) banks in ensuring compliance, facilitating forex transactions, and maintaining regulatory oversight.
Practical insights into forex mechanisms, including exchange rate systems, forward contracts, and hedging instruments used to manage currency risk.
Ability to identify key compliance issues, understand penalties for violations, and adopt preventive strategies to ensure adherence to FEMA norms.
Critical appreciation of how FEMA regulations support trade transparency, financial stability, and the ease of doing international business in India.

PS-I station: SBI Mumbai, Branch Operations Naupada(Thane), Mumbai

Student

Name: ARHAN BORDIA .(2023A2PS1305P)

Student Write-up:

PS-I Project Title: How to improve customer service in branches

Short Summary of work done: During my Practice School I internship at State Bank of India, Naupada (Thane) branch, I undertook a comprehensive study focused on improving customer service in a retail banking environment. My responsibilities encompassed observing daily branch operations, interacting with customers, and mapping service workflows. I designed and conducted structured customer feedback surveys to evaluate satisfaction levels on parameters such as staff behavior, turnaround time (TAT), facility cleanliness, digital support, and queue management. In addition, I benchmarked the branch's practices against both RBI guidelines and private sector standards by reviewing regulations and conducting incognito visits to other branches. Facility assessments were performed to evaluate the branch's physical environment, including amenities, signage, and the functioning of self-service machines. I also interviewed staff members to understand operational challenges and training needs, and analyzed the complaint register to identify recurring issues and resolution effectiveness. Based on a holistic review of findings from surveys, direct observations, staff inputs, and process benchmarking, I proposed actionable recommendations. These include enhancing queue management with digital systems, strengthening digital adoption through targeted staff training and proactive customer support, establishing visible feedback channels, and leveraging analytics and AI for smarter service delivery. The experience strengthened my analytical, communication, and problem-solving skills, and provided valuable exposure to service quality management in the banking sector.

Objectives of the project: Understand daily branch operations, Identify customer pain points, Capture direct customer feedback and Evaluate digital tool usage

Tool used: Microsoft excel, word and powerpoint.

Details of Papers/patents: None

Brief description of the working environment: During my internship at SBI Naupada (Thane) branch, I experienced a dynamic and customer-centric work environment. The branch office was always bustling with a steady inflow of diverse customers, ranging from pensioners and business clients to walk-in visitors. Staff maintained a cordial and professional atmosphere,

focused on teamwork and efficient service delivery. The work culture emphasized punctuality, adherence to processes, and proactive problem-solving, while balancing both face-to-face service at counters and digital facility management. The environment was supportive, with senior staff and managers readily offering guidance and encouraging knowledge sharing.

Academic courses relevant to the project: Human Resource Development
Technical Report Writing
Fundamentals of financial accounting

Learning Outcome: Understood branch operations flow
Observed real customer interactions
Analyzed service gap areas
Conducted structured customer surveys
Interpreted survey response trends
Benchmarked with industry standards
Reviewed RBI service guidelines
Identified frontline operational challenges
Studied staff training gaps

PS-I station: SBI Mumbai, Branch Operations Nri Seawoods Branch, Mumbai

Student

Name: PARTH NAHATA(2023B4A40889G)

Student Write-up:

PS-I Project Title: Improving compliance culture amongst employees

Short Summary of work done: understanding general operations at the branch, studying sbi and rbi regulations, analysing the RFIA audit remarks and suggesting improvement areas

Objectives of the project: Identify compliance gaps and suggest ways to improve compliance amongst employees

Tool used: Mercury (forex operations), OTMS (SBI internal system)

Details of Papers/patents: report submited to LHO and branch

Brief description of the working environment: branch was pretty understaffed hence hectic environment

Academic courses relevant to the project: FUFA, risk mangement (drm/sapm), PoM

Learning Outcome: Understanding the strict regulatory framework and auditing procedures SBI adheres to.

PS-I station: SBI Mumbai, Branch Operations Wagle Industrial Estate Thane, Mumbai

Student

Name: Harshita Babal(2023C2PS0092P)

Student Write-up:

PS-I Project Title: Analysis of S.M.E. Loans

Short Summary of work done: During my PS-I internship at SBI, I was assigned a project focused on analyzing the bank's SME loan segment. I began by understanding the structure of SME loans, types of credit facilities offered, eligibility criteria, and documentation processes. I collected and examined branch-level data on loan disbursements, sanctioned amounts, repayment schedules, and overdue accounts. The analysis involved identifying trends in credit flow to SMEs, comparing performance across different financial years, and assessing sector-wise distribution of loans. I also explored factors contributing to rising NPAs in this segment and how the bank manages credit risk. Furthermore, I studied government schemes like CGTMSE and their role in supporting SME financing. Through discussions with bank officials and field observations, I gained exposure to practical banking operations and challenges in SME lending. My final report offered insights into areas of improvement and suggestions to make SME loan offerings more accessible and robust. The project culminated in a comprehensive presentation to my faculty and SBI mentors.

Objectives of the project: The primary objective of the project was to analyze the Small and Medium Enterprises (SME) loan portfolio of the State Bank of India (SBI), Mumbai branch. This included studying the disbursement trends, repayment behavior, non-performing assets (NPAs), and overall credit performance. A secondary aim was to understand the challenges faced by SMEs in securing loans and evaluate SBI's effectiveness in catering to this segment.

Tool used: Office computing system with secure SBI access for internal data, Microsoft Excel, Google Docs, Canva

Details of Papers/patents: None

Brief description of the working environment: The working environment at SBI Mumbai during my PS-I was professional, structured, and conducive to learning. The staff was approachable and willing to guide me through processes, which helped me adapt quickly despite the formal hierarchy typical of public sector institutions. I had access to relevant internal data and received mentorship from experienced officers, allowing me to complete my project effectively. My expectations from the company were to gain hands-on exposure to SME lending practices, understand the bank's approach to credit risk, and observe real-world banking operations—all of which were met successfully. I learned about various SME loan products, the appraisal and disbursal processes, and the documentation and compliance required for sanctioning loans. I observed how trust plays a crucial role in the banker-customer relationship, especially in the SME segment. Analyzing loan performance data taught me to identify trends and evaluate credit risk across sectors. I also improved my skills in reporting and professional communication through documentation and discussions with officers. Interactions with bank staff provided deeper insights into how public sector banks balance regulatory obligations with customer needs. This experience helped bridge the gap between theoretical knowledge and practical application. It strengthened my analytical thinking and enhanced my interest in the financial sector, particularly in areas involving development finance and SME growth. Overall, PS-I at SBI Mumbai proved to be a valuable and insightful internship that significantly contributed to both my academic and professional development.

Academic courses relevant to the project: Fundamentals of Finance and Accounting, Principles of Management, Principles of Economics

Learning Outcome: During my PS-I at SBI , I gained practical insights into the functioning of India's largest public sector bank and its structured corporate environment. I understood the end-to-end process of loan handling, including processing mechanisms, credit appraisal techniques, and risk assessment models. I also became familiar with SME classification, the various loan products tailored for them, and the relevant policy guidelines issued by both SBI and the RBI. The project helped me strengthen my analytical abilities through data evaluation and trend forecasting. Additionally, the internship significantly improved my professional communication skills and taught me how to operate effectively within a disciplined, process-driven banking framework.

PS-I station: SBI Mumbai, Commercial Clients Group Regional Office Backbay Reclamation, Mumbai

Student

Name: ASHWIN REDDY .(2023A4PS0702H)

Student Write-up:

PS-I Project Title: Credit Analysis, Loan Sanctioning and Post Sanction Monitoring of Credit for Manufacturing Industry Companies

Short Summary of work done: My responsibilities primarily involved supporting the team in post-sanction monitoring of client accounts. This included analyzing clients' financial statements, gathering information on company directors, and utilizing various monitoring tools to ensure that sanctioned funds were being used appropriately. I also assisted in assessing the clients' ongoing financial health to verify their continued ability to meet repayment obligations. In addition to my assigned tasks, I utilized my access to SBI's internal documents to study various industries and understand their operating environments. I was also given access to SBI's Loan Policy, which serves as the core framework for all sanctioning activities. This helped me gain a deeper understanding of the bank's decision-making processes.

Objectives of the project: To evaluate and strengthen the creditworthiness assessment, loan sanctioning procedures, and post-sanction monitoring mechanisms specifically tailored to the risk profiles and operational characteristics of manufacturing industry companies, with the goal of minimizing default risk and enhancing portfolio quality.

Tool used: Excel, Word, Powerpoint, SBI Internal Software

Details of Papers/patents: N/A

Brief description of the working environment: The staff at the branch were exceptionally welcoming and approachable, consistently willing to provide support and guidance on assigned tasks as well as general queries. Their feedback was always constructive, contributing meaningfully to my learning and performance. Being part of the commercial branch offered valuable exposure to the operational and financial practices of established companies.

Additionally, I had access to SBI's internal documentation, built over its 70-year legacy, which significantly enhanced my understanding of the practical applications of the concepts covered in my finance minor coursework.

Academic courses relevant to the project: Fundamentals of Finance and Accounting

Learning Outcome: -Learned to conduct credit risk assessments using financial statements, cash flows, and industry analysis.
-Gained exposure to loan sanctioning procedures, including risk grading, collateral evaluation, and documentation.
-Developed awareness of sector-specific risks in manufacturing, such as high working capital needs and capital expenditure cycles.
-Studied RBI guidelines on credit exposure, NPA norms, and provisioning requirements.
-Learned how banks perform post-sanction monitoring through tools like stock audits, site visits, and early warning signals (EWS).
-Gained hands-on experience with internal credit rating models and their impact on lending decisions.
-Understood the importance of risk-mitigated lending, including use of covenants, guarantees, and security structures.
-Enhanced ability to make informed, risk-adjusted credit decisions tailored to the needs of manufacturing clients.

PS-I station: SBI Mumbai, Commercial Clients Group Regional Office Backbay Reclamation, Mumbai

Student

Name: ASWANTH GANESAN .(2023B4A30640H)

Student Write-up:

PS-I Project Title: Analysis of the Financials of NBFCs

Short Summary of work done: I worked with SBI's corporate lending team, handling NBFC accounts. My role focused on supporting credit proposal documentation, including preparing borrower snapshots, sanction summaries, and inputs for internal risk discussions. These were

used as part of the appraisal and approval process for high-value lending. A major part of the work involved reviewing quarterly data submitted by borrowers to monitor the bank's exposure. This included tracking financial ratios, asset quality, liquidity metrics, funding mix, ALM mismatches, and stock performance where relevant. The goal was to identify deviations from expected trends and raise any early signs of stress. I also reviewed audit reports submitted by independent monitoring agencies, extracted relevant findings, and helped compile closure notes for senior management. On the disclosure side, I tracked monthly disclosures shared with other lenders under regulatory information-sharing frameworks. In addition, I supported due diligence tasks like preparing director briefs and checking internal/external databases for defaulter history. I also helped with short documentation tasks during credit audit compliance, wherever support was needed. Along the way, I became familiar with SBI's internal policy on financing NBFCs and the regulatory standards that govern exposure, capital, and rating-linked limits. It gave me a clear view of how credit teams function in a large bank, where credit proposals, post-sanction monitoring, and regulatory compliance shape the loan lifecycle.

Objectives of the project: To understand how SBI evaluates and monitors credit to NBFCs through internal policy, financial analysis, and regulatory compliance processes.

Tool used: MS Word, Excel, Internal SBI portals

Details of Papers/patents: NA

Brief description of the working environment: The work environment was fast-paced and deadline-driven, as expected in corporate banking. My team members were helpful and made it easy to settle in. I could ask questions freely, and they'd always explain when needed. In a small office of around 65 to 70 people, things like birthday cake cuttings and office-wide snack treats were regular, simple gestures that reflected a good culture, even with the constant pressure.
People from other departments were also friendly. They would chat during lunch or in passing, which made the place feel approachable.
Work timings were officially 10 am to 7 pm, but they weren't strictly enforced. I could leave early if there was no pending work or stay back a bit, usually till 7:30 pm, if something needed to be completed that day.
Tasks had to be accurate and delivered on time. Once I understood what was needed, I was trusted to handle things independently.

Academic courses relevant to the project: Fundamentals of Finance and Accounting (FoFA)

Learning Outcome: I learned how to interpret NBFC financials in relation to SBI's lending policy, especially capital adequacy, asset quality, liquidity, and regulatory compliance benchmarks.
Preparing sanction support documents taught me how to extract and present borrower and financial information clearly, in formats used during the credit approval process.
Working on quarterly exposure reviews helped me get quicker at spotting mismatches or deviations in borrower-submitted financials compared to earlier trends or estimates. Reviewing

audit reports taught me how credit teams respond to compliance observations and incorporate them into closure notes and internal tracking.
I became more confident navigating policy documents, clarifying procedural doubts, and handling time-sensitive documentation where accuracy mattered.

PS-I station: SBI Mumbai, Corporate Accounts Group - Credit, Mumbai

Student

Name: RISHI CHANDNA(2023A4PS1160G)

Student Write-up:

PS-I Project Title: Navigating India's Energy Future and Financial Markets: A Study of Renewable Energy and Derivatives

Short Summary of work done: My work comprised of doing income statement and balance sheet analysis and exploring the renewable energy sector and major policies which are required to finance such projects.

Objectives of the project: Regarding the financing of Renewable Energy Projects, Analysis of Balance Sheet and Income Statement, Developments and Challenges in RE Sector, Derivatives and Financial Modelling

Tool used: Excel

Details of Papers/patents: -

Brief description of the working environment: Good working environment and very friendly staff which helped me reach my potential and helped in formulating topics which should be covered throughout the term of my internship.

Academic courses relevant to the project: All finance courses such as FUFA DRM, SAPM, BAAV etc.

Learning Outcome: Analysis of income statements and balance sheets

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PS-I station: SBI Mumbai, Corporate Accounts Group - Credit, Mumbai

Student

Name: SHAURYEARAJ YUVRAJ NEEMA KUMAR(2023B3AD1083H)

Student Write-up:

PS-I Project Title: Financial and Risk Analysis of Bank-Financed Companies with an Overview of Treasury Derivative Products

Short Summary of work done: During my internship at the Corporate Accounts Group, Credit Division, of State Bank of India (SBI), I was actively involved in the financial and risk assessment of companies transacting with the bank. This role required a comprehensive analysis of their financial statements—scrutinizing balance sheets, profit and loss accounts, and cash flow statements to determine creditworthiness and potential risks. I assessed liquidity, solvency, and profitability ratios, calculated risk scores, and prepared detailed reports highlighting areas of concern and opportunity. I also gained in-depth exposure to the bank's internal operations by observing and assisting various departments. This included the Credit Appraisal team, Risk Management division, Legal and Compliance unit, and the Relationship Management wing. I mapped their interconnections and workflow, particularly during the processing of high-value loans exceeding ₹100cr. My responsibilities extended to tracking loan documentation, conducting due diligence, and understanding the layered approval processes necessary for disbursal. I observed the role of cross-functional collaboration in ensuring prompt decision-making and robust risk mitigation for large corporate accounts. Additionally, I participated in handling live option trades where I gained firsthand experience in derivative instruments, pricing strategies, and risk hedging techniques. Attending consortium meetings was another invaluable aspect of my internship. These meetings brought together representatives from multiple banks and provided opportunities to network with CFOs and GMs of industry-leading companies. Through these sessions, I gained practical insights into structured finance, inter-bank coordination, and negotiation dynamics. The exposure significantly enhanced my understanding of financial markets, risk management, and the strategic operations of India's largest public sector bank.

Objectives of the project: Financial Health Assessment: Deep dive into liquidity, profitability, leverage, and market value ratios for companies. Order Book Analysis: Examine the size, composition, and efficiency of the order book for the companies, and its impact on revenue generation and financial stability. Working Capital Management: Analyze the mechanisms and efficiency of working capital management, including assessment of fund-based working capital (FBWC), the role of inventory and receivables. Industry Benchmarking: Comparison of the companies against industry standards and best practices, highlighting strengths, weaknesses, and areas for improvement. Understanding the fundamentals and operations of the bank. Hands on experience in handling live Options deals of the bank.

Tool used: Word, PPT, Excel, R, Canva, Confluence, Gamma

Details of Papers/patents: 'Policy on financing EPC Sector' by the Credit Policy and Procedures Department Corporate Centre
'Treasury Products-Overview' by SBI Treasury Department of Forex
'FY26 Construction Outlook' by India Ratings and Research
'Financial Stability Report (June 2

Brief description of the working environment: The environment within the Corporate Accounts Group (CAG) of State Bank of India (SBI) is highly professional, dynamic, and collaborative. The team comprises seasoned banking professionals and specialists in credit risk, legal compliance, and relationship management. Workspaces are structured to encourage both focused individual analysis and cross-departmental coordination, especially for handling high-value corporate loan proposals. There is a strong emphasis on accuracy, attention to regulatory detail, and proactive risk assessment, with interns and new team members encouraged to ask questions and participate in ongoing deals and discussions. SBI sets clear expectations for interns: a rigorous approach to financial analysis, active participation in team processes, and strong ethical standards in dealing with confidential data. The bank values initiative, interns are expected to independently analyze client information, support due diligence and documentation, and demonstrate keen interest in understanding the broader context of each transaction. Professionalism in communication, respect for hierarchy while being proactive, and timely submission of analytical reports are highly regarded. Interns are also encouraged to network within and beyond the organization during events such as consortium meetings to foster industry insights. Gained comprehensive hands-on experience in financial and credit risk analysis for large corporate clients, learning how banks assess balance sheets, cash flows, and underlying risks. Developed an understanding of the credit approval lifecycle, including how various bank departments coordinate to process significant loan proposals. Observed live option trading and learned about the practical aspects of derivatives, risk hedging, and treasury operations. Improved inter-personal and professional networking skills while interacting with senior executives, including CFOs and GMs from market-leading companies at consortium meetings. Enhanced my skills in structured financial reporting, due diligence, and project management within the banking sector. Overall, the experience provided a real-world foundation for applying financial theory, deepened my understanding of large-scale corporate

finance, and helped to build critical professional competencies relevant to banking and financial analysis.

Academic courses relevant to the project: Fofa, DRM, FM, Fram, BAV, SAPM, Macroeconomics, Microeconomics, MBFM

Learning Outcome: Application of finance and economics courses learnt, in practice.
Understand Key Financial Ratios: Gain the ability to interpret and analyze liquidity, profitability, leverage, market value, critical ratios in the EPC sector.
Order Book Dynamics: Learn how order book size and efficiency drive profitability and risk, and how these metrics are used for performance benchmarking.
Working Capital Assessment: Develop practical knowledge of working capital financing and their significance in the industry.
Risk Management Frameworks: Understand the Three Lines of Defense model and its application in the context of bank.
Analysis Skills: Build the ability to analyze companies using quantitative and qualitative data, drawing meaningful inferences for strategic decision-making.
Application of Credit Rating and Policy Insights: Appreciate the role of credit rating agencies and financing policies in shaping the operational strategies of companies.
Gain practical exposure to bank's credit policies, receivables management, and collections procedures.
Assess both business risk (industry, macroeconomic, and company-specific factors) and financial risk (cash flow adequacy, capital structure) in real-world lending scenarios.
Observe the budgeting process and internal/external financial reporting, connecting classroom concepts to real corporate practices.
Application of technical proficiency with Excel and financial software to process, analyze, and visualize financial data.
Develop the ability to communicate financial insights and credit decisions to senior management.
Understand and apply relevant financial regulations and compliance requirements in credit operations, reinforcing the importance of ethical judgment and confidentiality in handling sensitive information.
Gaining hands-on experience in handling live derivative products such as Options deals of the bank.

PS-I station: SBI Mumbai, Global IT Centre, Mumbai

Student

Name: BHAVIK AKSHAY BHANSALI .(2023A7PS0061H)

Student Write-up:

PS-I Project Title: Web App Developer

Short Summary of work done: I was given a project to develop in a very newer langugae and backend to be in oracle.Its actually interesting experience to practically use the coding we have learnt rather than just being academically samrt about it.Integrated the frontend(html,.js,css) with its codebehind(c#) and backened(oracle).

Objectives of the project: Automate requests between the departments

Tool used: Vs code, vs community,perplexity ai,oracle db,sftp servers

Details of Papers/patents: None

Brief description of the working environment: Working environment was pretty lenient. I was working under Assistant general manger(third highest post possibly in the entire bank and second highest post in the B.I.D. delartment).They were very lenient as long as you completed your work on time.People working their too were friendly and supportive.I expected financial work but was given tech job.Learnt a lot about professional experience and actual implementation of the coding skills .

Academic courses relevant to the project: Computer languages and subjects related to database

Learning Outcome: Learnt a new languagr C#,learnt pracfical use of database,learnt frontend designing

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PS-I station: SBI Mumbai, Global IT Centre, Mumbai

Student

Name: ARYAMAN SINGH(2023A7PS0328G)

Student Write-up:

PS-I Project Title: YONO 2.0 Dev

Short Summary of work done: I contributed to the development and testing phases of the YONO 2.0 application. My responsibilities included email scheduling and internal stakeholder communications. I also formatted HTML/CSS content for internal dashboards and coordinated layouts for approval. One of my primary roles was to perform manual and functional testing for new feature updates, reporting bugs, and helping prepare testing documentation. I worked with Excel extensively to format user and partner databases, analyze data points, and structure them for reporting and product decisions. Additionally, I helped prepare documentation and presentation drafts for team leads and internal reviews.

Objectives of the project: The objective of the project was to support the enhancement and testing of SBI's digital banking platform, YONO 2.0, by assisting in front-end content formatting, conducting manual and functional testing, managing internal communications through scheduled emails, and maintaining structured documentation. The aim was to contribute to smoother feature rollouts and ensure user-friendly, error-free customer experiences.

Tool used: Microsoft Excel, Manual Testing, Gmail, MS Teams

Details of Papers/patents: N/A

Brief description of the working environment: The working environment at SBI's Global IT Centre in Mumbai was professional, collaborative, and structured. Being part of the YONO 2.0 team, I was exposed to real-world fintech product development. The expectations from the company included punctuality, attention to detail, and the ability to communicate and document work clearly.
During PS-I, I engaged in tasks such as email scheduling and communication formatting, which improved my understanding of stakeholder interactions. I also worked on HTML and CSS-based UI formatting for internal dashboards, giving me exposure to front-end aspects. A major chunk of my work involved testing—both manual and functional—for new feature rollouts in YONO 2.0. This significantly enhanced my understanding of the software development lifecycle and QA processes. Additionally, I handled Excel-based tasks to structure and organize PR or marketing data for internal use. The experience helped me develop soft skills, professional discipline, and a better appreciation of scalable systems in a large organization.

Academic courses relevant to the project: N/A

Learning Outcome: • Gained firsthand experience in corporate workflows and fintech product cycles.

- Developed practical skills in HTML, CSS, and Excel for documentation and formatting.
- Understood the significance of detailed manual and functional testing in real-world applications.
- Learned professional communication and how to handle responsibility in a structured team environment.
- Improved documentation and coordination skills useful for project/product roles.

PS-I station: SBI Mumbai, Small Medium Enterprises City Credit Centre Bhayander, Mumbai

Student

Name: JAINAM SINGHVI(2023B5A41217G)

Student Write-up:

PS-I Project Title: Improving efficiency and TAT of credit sanctioning

Short Summary of work done: I worked on figuring out the factors affecting turnaround time (TAT) and identifying how some of these factors which causes in increase in the TAT can be eliminated from the process. Also worked on recognising the competitive advantage of other players and how SBI can counter them for larger deal sizes in the region for credit application

Objectives of the project: To identify the operational problems that were causing delay in credit sanction and thereby increasing the turnaround time (TAT). Also, identify efficient ideas adopted by competitors and how SBI overcome them.

Tool used: Ms Excel

Details of Papers/patents: Nil

Brief description of the working environment: I had a positive experience and felt valued as a learner. I learned to think critically and work efficiently under guidance.

Academic courses relevant to the project: Fufa

Learning Outcome: Banking procedures
Credit sanction
Ms Excel
PowerPoint
Communication

PS-I station: SBI Mumbai, Small Medium Enterprises City Credit Centre Prabhadevi, Mumbai

Student

Name: KARTIK RITESH KHANDELWAL .(2023B2A41333H)

Student Write-up:

PS-I Project Title: Hard and Soft recovery measures in NPA management and recovery

Short Summary of work done: My work was to interact with customers at SBI and educate them about finance, NPA and account management.

Objectives of the project: To learn what is NPA and what happens after an account becomes NPA

Tool used: Excel

Details of Papers/patents: N/A

Brief description of the working environment: Working environment was very good, everyone at SBI was very helpful

Academic courses relevant to the project: EPS

Learning Outcome: Communication and analytical skills

PS-I station: SBI New Delhi, Commercial Clients Group Regional Office CB Nehru Palace, New Delhi

Student

Name: NISHANT VENKATESAN .(2023A2PS0906H)

Student Write-up:

PS-I Project Title: Qualitative and quantitative analysis of due diligence for large corporate advances

Short Summary of work done: Most of the learning was exposure based. Getting to learn the difference in what is taught and how things are done in the industry is really great. Very good internship for students looking to get into finance roles in the future.

Objectives of the project: Examining the current due diligence process for large advances and suggesting solutions

Tool used: Excel

Details of Papers/patents: NA

Brief description of the working environment: Great work environment. It's a PSU so work life is really low stress and chill. It also makes all employees very approachable and they are willing to teach you a lot. It also helps you understand how communicate in a corporate setting as well as how to deliver on time while managing multiple commitments.

Academic courses relevant to the project: Fundamentals of finance and accounting, Financial Management

Learning Outcome: Gives you an understanding about the importance of client relationships in large corporate lending. Also was able to understand how the credit rating process works and the importance of following regulatory procedure with regard to due diligence in both pre and post sanction situations.

PS-I station: SBI New Delhi, Commercial Clients Group Regional Office IFB New Delhi, New Delhi

Student

Name: DEVANG(2023B3AD0486H)

Student Write-up:

PS-I Project Title: Ananlysis of Related Party Transactions and Spillover Risk in Corporate Group Accounts

Short Summary of work done: This project focused on analyzing Related Party Transactions (RPTs) within corporate groups and assessing the associated spillover risks in the context of group lending at the State Bank of India's Industrial Finance Branch. In large conglomerates, subsidiaries often engage in financial and operational transactions with each other, creating interdependencies that can amplify credit risk. Traditional lending frameworks usually assess each borrower in isolation, overlooking these internal linkages. To address this gap, the project developed a unified framework combining a Spillover Risk Scorecard with a Heuristic Classification System. The scorecard assessed entities based on metrics like financial RPTs as a percentage of group assets, operational RPTs relative to income, intra-group sales dependency, and counterparty concentration. Entities were also categorized by type (e.g., holding company, captive subsidiary), function (e.g., land holder, core ops), and industry domain. Case studies were conducted on APL Apollo (manufacturing) and DLF Group (real estate), highlighting distinct RPT structures and vulnerabilities. Tools like Excel and Power BI were used for automation and visualization. The outcome was a scalable, practical method to flag high-risk entities, support credit policy decisions, and enhance group exposure monitoring, ultimately strengthening SBI's credit risk framework for complex borrower structures.

Objectives of the project: The objective of the presentation was to explore the credit risk posed by Related Party Transactions within corporate groups. By applying a structured spillover risk framework and entity classification system, the project aimed to identify intra group financial dependencies and suggest ways to enhance SBI's credit monitoring practices for group lending.

Tool used: Microsoft Excel – for RPT data cleaning, financial analysis, and spillover scorecard modeling Power BI – for creating dynamic dashboards to visualize group structures and risk metrics ProwessIQ (CMIE) – to access historical financials and industry benchmarking data PDF Reader & OCR Tools – for extracting RPT disclosures from scanned annual reports SEBI & MCA

Portals – to verify compliance, governance, and disclosure details CRISIL/ICRA Ratings – to incorporate external credit assessments into risk scoring

Details of Papers/patents: NA

Brief description of the working environment: The working environment at SBI Industrial Finance Branch was excellent. Everyone was incredibly supportive, approachable, and responsive to our needs, creating a comfortable space to work and learn. Our mentor was deeply knowledgeable and always available to guide us through complex ideas, which greatly enriched the overall experience. The work culture was highly professional, tasks were treated with seriousness and precision, and the same level of commitment was expected from interns. This instilled a strong sense of responsibility and ownership in us. Overall, it was a highly rewarding learning experience that offered both exposure to real-world financial systems and a glimpse into the discipline of large-scale corporate banking.

Academic courses relevant to the project: Fundamentals of Finance and Accounting, Financial Mangement, Derivatives and Risk Management, Econometrics.

Learning Outcome: Gained practical exposure to analyzing Related Party Transactions and their role in credit risk.
Understood how intra-group financial and operational linkages impact lending decisions.
Developed a heuristic risk scoring and classification framework for group entities.
Learned to extract and interpret financial data from annual reports and disclosures.
Enhanced proficiency in Excel, Power BI, and credit evaluation tools used in banking.
Strengthened analytical thinking and structured problem-solving in real-world finance.

PS-I station: SBI Pune, Commercial Clients Group Regional Office IFB Pune, Pune

Student

Name: HRISHIKESH DATAR(2023A4PS0054G)

Student Write-up:

PS-I Project Title: bancassurance and

Short Summary of work done: NA

Objectives of the project: Predicting the bancassurance income of SBI

Tool used: Python, pandas, excel

Details of Papers/patents: NA

Brief description of the working environment: NA

Academic courses relevant to the project: NA

Learning Outcome: Linear regression

PS-I station: SBI Pune, Commercial Clients Group Regional Office IFB Pune, Pune

Student

Name: TEJAS BAKRE(2023A8PS0239G)

Student Write-up:

PS-I Project Title: Effectiveness of Bancassurance Model in enhancing SBI's Non-interest Income

Short Summary of work done: During the course of my internship, I worked on analyzing the effectiveness of SBI's Bancassurance model in contributing to its non-interest income. The project involved studying the performance of SBI's insurance tie-ups, identifying the share of Bancassurance in overall fee-based income, and understanding customer preferences. I reviewed existing sales processes, marketing approaches, and the challenges faced by branch officials in promoting insurance products. Data collection and secondary research were conducted to compare SBI's practices with industry benchmarks and peer banks. Based on the analysis, I highlighted the strengths of SBI's wide customer base and branch network in driving insurance sales, while also suggesting areas for improved product awareness and staff training. This project gave me exposure to the intersection of banking and insurance services, and allowed me to contribute insights towards enhancing SBI's revenue diversification strategy.

Objectives of the project: The primary objective of this project was to evaluate the role of the Bancassurance model in strengthening SBI's non-interest income streams. The project aimed to study how cross-selling of insurance products through SBI's branch network contributes to revenue diversification, customer relationship enhancement, and overall profitability. It also focused on identifying operational efficiencies, customer adoption patterns, and potential areas of improvement in the current Bancassurance practices.

Tool used: MS Excel – for data analysis, tabulation, and graphical representation MS PowerPoint – for preparing presentations and summarizing findings MS Word – for documentation of reports SBI's internal knowledge resources, circulars, and databases (where accessible). Python and R for regression modelling.

Details of Papers/patents: -

Brief description of the working environment: The working environment at SBI was highly professional and collaborative. As an intern, I received support from officers who guided me in understanding the functioning of SBI's Commercial Clients Group and retail insurance channel. I was able to observe how bank employees manage multiple responsibilities, including customer service, sales, and compliance.

My expectation from the company was to gain a holistic view of banking operations beyond traditional lending, and this was fulfilled through my project on Bancassurance. I learned how SBI leverages its branch reach, customer trust, and strong partnerships with insurers to drive non-interest income. I also gained insights into the challenges faced in this model, such as customer reluctance, need for staff training, and regulatory constraints.

Overall, this experience broadened my understanding of the banking sector, particularly the importance of fee-based income in strengthening financial resilience. It also improved my analytical, research, and presentation skills while giving me a first-hand look at real-world banking operations.

Academic courses relevant to the project: Principles of Banking & Finance
Financial Management
Marketing of Financial Services
Business Analytics / Data Analysis Tools
Organizational Behavior (for understanding sales and customer relationships)

Learning Outcome: Gained an understanding of how non-interest income plays a critical role in bank profitability and stability.

Learned the functioning of the Bancassurance channel, including product bundling, cross-selling, and revenue-sharing mechanisms.

Developed analytical skills by evaluating data related to insurance sales performance and customer response.

Understood regulatory and compliance requirements involved in Bancassurance operations.

Learned how strategic partnerships between banks and insurance companies drive financial inclusion and revenue diversification.

PS-I station: SBI Pune, General Banking Pune Main (454), Pune

Student

Name: SUJAY SHRESHTHA .(2023B1AB0824P)

Student Write-up:

PS-I Project Title: Digital and Manual Loan application categorized by age and income

Short Summary of work done: Analyzed loan data given by sbi to derive meaningful trends based on parameters such as income ,age, cibil score, loan amt and location , created linear regression model to analyze trends and then used statsmodels and matplotlib to generate meaningful insights

Objectives of the project: Using statistical models to analyze loan da5a

Tool used: Python,sql,statsmodels

Details of Papers/patents: The report was submitted to the ps faculty and sbi pune consisting of the findings of our analysis and suggestions to improvise sbi"s lending system

Brief description of the working environment: The work timings were 10 am to 5 pm ,6 days a week with enough support from our mentor , moreover we were given the freedom to explore various other sectors in the bank Apart from the loan dept

Academic courses relevant to the project: Data analysis courses

Learning Outcome: Exploratory Data analysis
Regression modelling

PS-I station: Seller Setu Pvt. Ltd - Tech, Mumbai

Student

Name: MEET PARMAR(2023A7PS0406G)

Student Write-up:

PS-I Project Title: Web Development Intern

Short Summary of work done: Added blogs for the users to read and formatted it to make it visually appealing way, tried changing the chart appearance of mobile

Objectives of the project: Building and Fixing the website

Tool used: React js, VsCode, Git, GitHub, n8n, JS

Details of Papers/patents: None

Brief description of the working environment: Very supportive and inclusive working environment, I learned about a lot of things about how things work in a corporate setup.

Academic courses relevant to the project: yes

Learning Outcome: Learning about GitHub, Git, working in a collaborative environment, frontend development, React js.

PS-I station: Seller Setu Pvt. Ltd - Tech, Mumbai

Student

Name: AARUSH AJIT BHARGAVA(2023A8PS1163G)

Student Write-up:

PS-I Project Title: Pair trading

Short Summary of work done: Working with n8n taught me how powerful automation can be when it comes to simplifying repetitive tasks, especially when integrated with AI. It helped me build the mindset of designing smart workflows and thinking in terms of efficiency and scalability. Then, through pair trading, I got a deep dive into the world of quantitative finance. I learned how to backtest strategies, interpret financial signals, and adjust parameters to balance risk and reward. It gave me a realistic sense of how algorithmic trading systems are developed, tested, and refined in real life. And finally, the design phase showed me the value of clear communication. Even the best model or system can go unnoticed if it isn't explained properly. Creating visual presentations using Canva helped me take complex, technical topics and turn them into something that's simple and easy for others to understand. Overall, this experience gave me a much stronger sense of how to analyze problems logically, communicate ideas effectively, and use data to improve systems.

Objectives of the project: Understanding pair trading and making the model more profitable

Tool used: None

Details of Papers/patents: None

Brief description of the working environment: Online station

Academic courses relevant to the project: yes

Learning Outcome: None

PS-I station: Seller Setu Pvt. Ltd - Tech, Mumbai

Student

Name: MADHUR SANDEEP ZANWAR(2023AAPS0632G)

Student Write-up:

PS-I Project Title: Frontend Enhancement and Feature Integration for PairTrader Web Platform

Short Summary of work done: I used React to build modular, reusable components that keep the codebase clean and scalable. Tailwind CSS helped me create a modern, responsive design quickly and consistently across the site. A key part of my work was addressing layout issues, optimizing scrolling, ensuring responsiveness, and using Microsoft Clarity to better understand how users interact with the site. Insights from Clarity helped guide meaningful optimizations.

Objectives of the project: Improving their website

Tool used: React, Tailwind, Clarity

Details of Papers/patents: None

Brief description of the working environment: Web development project for tech people,

Academic courses relevant to the project: Courses related to Web dev

Learning Outcome: Developed good practices in collaborative coding, Learnt about softwares like clarity

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PS-I station: Seller Setu Pvt. Ltd - Tech, Mumbai

Student

Name: DHRUV MALANI .(2023B2A30987H)

Student Write-up:

PS-I Project Title: BACKEND DEVELOPMENT USING PYTHON AND ITS LIBRARIES

Short Summary of work done: Here's the information extracted from the report: PS-I Project Title BACKEND DEVELOPMENT USING PYTHON AND ITS LIBRARIES Objectives of the project The project focuses on backend development using Python to build a stock trading system. It aims to leverage libraries for data handling, stock data retrieval, and statistical analysis. The backend processes real-time stock data, runs simulations, and calculates performance metrics to generate trade signals for a pair trading system. Major Learning Outcomes The project demonstrated how to automate the complete data pipeline from fetching raw data to generating trading signals. It also showed the potential of Python's ecosystem in building scalable and intelligent financial systems. Key learnings included accurate data collection, statistical modeling, and automation. Short Summary of work done during PS-I (in not more than 250 words) During PS-I, the core work involved implementing a Pair Trading strategy using Python, focusing on statistical techniques like correlation analysis, cointegration testing, and linear regression to identify trading opportunities and generate trade signals. Essential backend tasks were completed, including retrieving market capitalization data for over 4000 companies using APIs (Yahoo Finance, Alpha Vantage) and ensuring data consistency with mapped tickers. A large-scale system for retrieving current and historical stock prices was built, managing API limits through batching and multithreading. Additionally, Futures & Options (F&O) classification was implemented by comparing mapped tickers with an official F&O list. The entire backend was developed using Python libraries such as Pandas, yfinance, requests, Statsmodels, Scipy, Numpy, Selenium, and Multithreading

Objectives of the project: The project focuses on backend development using Python to build a stock trading system. It aims to leverage libraries for data handling, stock data retrieval, and statistical analysis. The backend processes real-time stock data, runs simulations, and calculates performance metrics to generate trade signals for a pair trading system

Tool used: Python , APIs (Yahoo Finance & Alpha Vantage) , Pandas , yfinance , statsmodels , scipy , numpy , pytz , matplotlib , Selenium , Multithreading.

Details of Papers/patents: NONE

Brief description of the working environment: It was fine.

Academic courses relevant to the project: CS F111
TRW

Learning Outcome: The project demonstrated how to automate the complete data pipeline from fetching raw data to generating trading signals. It also showed the potential of Python's ecosystem in building scalable and intelligent financial systems. Key learnings included accurate data collection, statistical modeling, and automation

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PS-I station: Seller Setu Pvt. Ltd - Tech, Mumbai

Student

Name: SANAT AJAY GATTANI .(2023B3AD0946P)

Student Write-up:

PS-I Project Title: pair trading strategy

Short Summary of work done: we worked on an algorithm which used statistical data and historical values of prices of 2 assets and then on the basis of the z score and threshold entry and exit values it entered into the market and then took a closing position in the same trade to generate profits.

Objectives of the project: develop and build a pair trading strategy

Tool used: excel,vs code,grok

Details of Papers/patents: none

Brief description of the working environment: It was good and learnt a lot.

Academic courses relevant to the project: finance dels like finman,drm.

Learning Outcome: learnt about what pair trading is and how it can be used to generate maximum returns in stock market

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PS-I station: Shipon Group - Non Tech, Bengaluru

Student

Name: SHASHWAT SHARAN .(2023B2A10943P)

Student Write-up:

PS-I Project Title: MARKETING AND GROWTH INITIATIVES FOR BRAND DEVELOPMENT

Short Summary of work done: During my project on Marketing and Growth Initiatives for Brand Development, I worked closely with the core teams of Campus Express and Search Your Merch under Shipon Group. The focus was on evaluating existing marketing efforts, identifying growth bottlenecks, and implementing strategic initiatives to enhance brand visibility and customer engagement. My work involved analyzing customer acquisition data, optimizing CRM workflows, and improving digital touchpoints such as website, social media, and marketplace listings. I contributed to refining our outreach strategies, including WhatsApp marketing, influencer partnerships, and B2B tie-ups, which led to improved lead conversion rates. Additionally, I was involved in preparing communication templates, onboarding plans, and automation flows to streamline operations. Regular feedback loops were established to track performance and iterate on campaigns based on real-time metrics. This hands-on experience gave me a deeper understanding of customer behavior, funnel optimization, and the operational side of scaling a service-based business. Overall, the project contributed to measurable growth in customer reach and process efficiency across both brands.

Objectives of the project: To strategize and implement marketing and growth initiatives aimed at enhancing brand visibility, customer engagement, and overall business development.

Tool used: TeleCRM, Google Workspace, WhatsApp Business API, Canva

Details of Papers/patents: NA

Brief description of the working environment: During my PS-I at Shipon Group, I worked in a dynamic and collaborative startup environment that encouraged initiative and creativity. The company operates two growing brands—Campus Express and Search Your Merch—focused on logistics and merchandising solutions for students and institutions. I was integrated into ongoing projects from day one, and the flat team structure allowed for direct communication with leadership and quick feedback loops.

The company expected interns to take ownership of tasks, deliver outcomes efficiently, and adapt to a fast-paced, evolving set of responsibilities. Clear communication, time management, and data-backed decision-making were consistently emphasized. Weekly reviews ensured accountability and learning continuity.

My work focused on marketing and growth strategy, where I gained practical exposure in CRM optimization, lead generation, and brand positioning. I worked on digital campaigns, automated communication flows, and supported operational streamlining. I also participated in planning for strategic partnerships and content development for brand outreach.

This internship gave me a deep understanding of how marketing functions in a real-world business setting and how operational efficiency supports brand growth. The learning was

continuous, hands-on, and aligned with industry practices, giving me a solid foundation in marketing, communication, and team-based execution.

Academic courses relevant to the project: Principles of Management, Marketing, Strategic Management, Managerial Economics, Business Analytics

Learning Outcome: Developed practical expertise in data-driven marketing, CRM optimization, and brand growth strategies to enhance visibility and customer engagement.

PS-I station: SMAD Advisory Services LLP - Digital Marketing, Kanpur

Student

Name: BHAVEY SEHGAL .(2023A8PS1282P)

Student Write-up:

PS-I Project Title: Strategic Digital Marketing and Client Profiling for Financial Advisory Firm

Short Summary of work done: During my PS-I internship at SMAD Wealth Advisors LLP, I worked on building and executing a structured, organic digital marketing strategy tailored to the financial advisory space. The core focus was on enhancing brand visibility, improving client engagement, and streamlining lead generation without relying on paid advertisements. I also created customized, goal-based client profiling forms using Google Forms to segment investors such as NRIs, HNIs, and SME owners. These forms were linked to real-time dashboards in Google Sheets, enabling automated tracking, funnel analysis, and quicker follow-ups by the company.

Objectives of the project: The objective of this project was to design and implement a cost-effective, organic digital marketing strategy for SMAD Wealth Advisors LLP. It focused on enhancing brand visibility, improving online discovery through platforms like Google and JustDial, and creating audience-specific content for LinkedIn, Instagram, and YouTube. Additionally, the project aimed to streamline client profiling using Google Forms and Sheets, automate lead dashboards, and provide data-driven insights to support long-term digital growth.

Tool used: Google Forms – For designing goal-based client profiling questionnaires. Google Sheets – For real-time dashboard integration, data automation, and funnel tracking.

Details of Papers/patents: No papers or patents were published as part of this project.

Brief description of the working environment: My PS-I internship at SMAD Wealth Advisors LLP offered a dynamic and flexible working environment focused on creativity, responsibility, and execution. Despite being a remote internship, communication with the founding team was regular, structured, and feedback-driven. Weekly reviews helped align individual contributions with the company's broader marketing goals and made the experience feel collaborative and impactful.
The company's expectations centered on developing and implementing organic digital marketing strategies across platforms such as Google, LinkedIn, Instagram, WhatsApp, and YouTube. I was encouraged to take ownership of content planning, client profiling design, dashboard automation, and campaign analysis—tasks that required both analytical thinking and creative problem-solving.
This internship not only strengthened my understanding of digital marketing tools and strategies but also enhanced my ability to work independently, manage time effectively, and translate marketing concepts into actionable plans.

Academic courses relevant to the project: yes

Learning Outcome: Through this project, I gained practical exposure to digital marketing in the financial services sector. I learned how to create and manage client profiling systems, develop platform-specific content strategies, optimize online listings, and use tools like Google Forms and Google Sheets for lead tracking and automation.

PS-I station: SMAD Advisory Services LLP - Technology, Kanpur

Student

Name: AYUSH SURESH RAO(2023A3PS0207G)

Student Write-up:

PS-I Project Title: Frontend and Backend development for Financial Website

Short Summary of work done: Using React we developed the frontend for the website. Developed financial calculator

Objectives of the project: To develop a robust website for the company

Tool used: Vscode

Details of Papers/patents: None

Brief description of the working environment: Company mentors were friendly , work environment was flexible . Overall wonderful experience.

Academic courses relevant to the project: Cs F111, Data Structures and Algorithms , Object Oriented Programming

Learning Outcome: React , Js, web-development

PS-I station: SMAD Advisory Services LLP - Technology, Kanpur

Student

Name: AYUSH GUPTA .(2023A5PS1185P)

Student Write-up:

PS-I Project Title: DEVELOPMENT OF A SCALABLE FINANCIAL BLOGGING PLATFO R M, ENCO MPASSING RESTFUL API ARCHITECTU RE AND SEAM LESS INTEGRATION WITH THIRD-PARTY FINANCIAL DATA PR OVIDERS

Short Summary of work done: This project focuses on developing a scalable financial blogging platform with comprehensive RESTf ul API architecture and seamless third-party financial data integration. The platform utilizes React.js for frontend development and Supabase for backend services, implementing a monolith-based backend architecture while incorporating cloud-native deployment practices through CI/CD pipelines on Vercel. The solution provides real-time financial data integration, interactive calculators, and a robust content management system,

demonstrating modern API design patterns and scalable deployment strategies for financial technology applications.

Objectives of the project: Design and implement a scalable RESTf ul API architecture for financial blogging platform

Tool used: Git github vscode javascript supabase reactjs

Details of Papers/patents: Nil

Brief description of the working environment: We had a great working environment, using communication platfoem like whatsapp and google meet, we had weekly meetings with mentors for updates and new work to be assigned, and all doubts cleared in WhatsApp

Academic courses relevant to the project: Computer Programming

Learning Outcome: React tailwind web development team communication

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PS-I station: SMAD Advisory Services LLP - Technology, Kanpur

Student

Name: ARUSH TIWARI(2023B3AD0858G)

Student Write-up:

PS-I Project Title: UI/UX Design of a Financial Advisory Platform Using Figma with Responsive Frontend and Supabase-Based Data Management via API Integration

Short Summary of work done: During my internship at SMAD Wealth Advisors LLP, I worked with a team to design and develop a fully functional, responsive financial advisory platform. We began by creating a comprehensive design system in Figma, translating ideas into intuitive layouts and user flows. The frontend was developed using React.js, with Tailwind CSS for rapid styling and responsive design. Initially, we integrated the GNews API to display live financial news, but due to its request limitations and reliability issues, we explored Supabase as an alternative. Supabase offered us a cloud-based, secure, and scalable database solution, though

due to time constraints, full implementation remained pending. We received extensive feedback from the client, which led to major iterations in layout structure, visual hierarchy, and color palette to better reflect their branding. Our GitHub workflow ensured smooth collaboration and conflict resolution among the team. The final outcome was a client-aligned, scalable prototype that not only showcased SMAD's services but also laid the foundation for future digital expansion.

Objectives of the project: Creating a responsive and modern financial advisory website for SMAD Wealth Advisors LLP, integrating client-facing features such as live financial news, blog sections, and branding elements. The goal was to enhance digital presence while ensuring scalability, accessibility, and content dynamism.

Tool used: Software: Figma, React.js, Tailwind CSS, Axios, Supabase, Git, GitHub Hardware: Standard development laptops with VS Code for coding and browser-based testing tools

Details of Papers/patents: None

Brief description of the working environment: The working environment at SMAD Wealth Advisors LLP was dynamic and collaborative. Though the company is rooted in finance, the team showed a strong willingness to embrace technology, and we were given complete ownership over the design and development of their digital platform.
Expectations were clearly communicated — the website needed to reflect their professionalism, offer engaging financial content, and remain lightweight and scalable. We participated in regular review meetings, presented updates, and integrated suggestions promptly.
The company provided timely guidance and encouraged creative problem-solving. From learning Supabase integration to managing version control and collaborating through GitHub, I gained significant exposure to real-world web development.
This internship helped me strengthen my technical foundation, improve communication in a client-facing environment, and understand the balance between design, usability, and business goals. It was a highly enriching learning experience, mirroring the dynamics of a real startup or product team.

Academic courses relevant to the project: Web Development, User Experience Design, Database Systems, Software Engineering, Data Structures and Algorithms

Learning Outcome: Hands-on experience with React.js and Tailwind CSS, Understanding of UI/UX principles through Figma prototyping, API integration using Axios and RESTful architecture, Database management using Supabase as a frontend-accessible backend, Team collaboration using GitHub and version control best practices, Problem-solving in response to client feedback and technical constraint

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PS-I station: SMAD Advisory Services LLP - Visual Design, Kanpur

Student

Name: ABHISHEK BS(2023B3A30834G)

Student Write-up:

PS-I Project Title: Visual Design

Short Summary of work done: Firm profile,visual Marketing material design, logo design

Objectives of the project: Visual Marketing

Tool used: Canva,Figma

Details of Papers/patents: None

Brief description of the working environment: Nice, Welcoming work environment

Academic courses relevant to the project: Any sort of Marketing course

Learning Outcome: Marketing, Designing

PS-I station: SMARTSA TECH PRIVATE LIMITED, Pune

Student

Name: MANAS DESAI(2023A1PS0098G)

Student Write-up:

PS-I Project Title: PERSONALIZED MATH LEARNING PATHS USING DATA ANALYTICS & MACHINE LEARNING, MATH CONTENT GENERATION USING PYTHON & AI AGENTS, ONLINE GAME DESIGN

Short Summary of work done: The project began with the idea of creating a personalized learning experience by tailoring content flow to each learner's pace and needs. Learning material was broken down into stages and missions, each with specific time limits that varied by difficulty level to allow flexibility. We collected detailed attempt data for each learner, including number of attempts, time taken, performance changes over time, and a calculated struggle score. Through statistical analysis, the 75th percentile struggle score emerged as a reliable threshold for identifying learners who might need extra help. Based on these insights, an adaptive pathway was designed: faster learners progressed quickly to harder challenges, while others received more practice time, supportive content, and adjusted limits. The final deliverables included cleaned datasets, analysis pipelines and performance thresholds, demonstrating how data-driven adaptation can improve engagement, retention, and overall learning outcomes

Objectives of the project: Objective of the project was to create personalised learning paths for users of SMARTSA based on their data.

Tool used: Python, Microsoft Excel, Numpy, Pandas

Details of Papers/patents: None

Brief description of the working environment: The work environment throughout the project was highly encouraging, collaborative, and supportive, fostering both personal growth and professional development. Team members were approachable and always willing to share their expertise, making problem-solving a collective effort rather than an individual struggle. Regular discussions and brainstorming sessions ensured that ideas were heard and valued, creating a sense of ownership and motivation. Constructive feedback was offered promptly, helping refine both the work and the learning process. Access to relevant tools, resources, and guidance was always available, and the overall atmosphere promoted creativity, open communication, and continuous improvement, making the experience both productive and enjoyable.

Academic courses relevant to the project: Data Science courses.

Learning Outcome: Adaptive Learning Paths, Clustering Algorithms, Decision Trees, Data Cleaning, Model Optimization, Game-Based Learning, Student Engagement

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PS-I station: SMARTSA TECH PRIVATE LIMITED, Pune

Student

Name: ADITYA PRASAD MENE(2023A7PS0463G)

Student Write-up:

PS-I Project Title: Math Content Generation Using Python & AI Agents

Short Summary of work done: I developed custom Python-based scripts to automate generation of a wide range of math questions, including multiple-choice, subjective, and word problems. These covered topics such as fractions, direct and inverse variation, mean–median–mode, quadratic factorisation, linear equations in two variables, probability, and more. For MCQs, I defined the logic to generate meaningful distractors that promote deeper conceptual understanding. I also explored the use of open-source LLMs to further automate math content creation, including experimenting with fine-tuning and prompt-based approaches. Techniques like RAG and agent-based coordination were briefly explored to assess their potential in enhancing the generation process. In addition to content generation, I contributed to two other projects. In the Online Game Design project, I suggested engaging game ideas aligned with the platform's existing mechanics. In the Personalized Math Learning Paths project, I suggested key learner metrics to support the creation of learner clusters based on performance data. The experience offered deep insight into the EdTech domain, exposing me to real-world challenges in content generation and personalization. It helped me understand how to leverage AI and data analytics to build scalable educational tools.

Objectives of the project: 1) To automate generation of high - quality, structured math questions of a variety of types like MCQs, Subjective Questions and Word Problems 2) To study error patterns, common student misconceptions and incorporate these to improve learning outcomes 3) To explore algorithmic question generation and NLP-based content structuring to create an intelligent content pipeline for academic use

Tool used: Python and Python libraries (e.g., random, Pandas, Matplotlib, SymPy, os, Fractions); open-source LLMs like Flan-T5-Base (Google, via HuggingFace); Google Colab (GPU runtime) for fine-tuning the LLM; vector database (ChromaDB); API-based inferencing using LLMs such as GPT-4o-Mini (OpenAI) and Gemini 2.5 Flash (Google); AutoGen (Microsoft) for AI agent setup; version control and development tools like VS Code and GitHub.

Details of Papers/patents: N/A

Brief description of the working environment: *Working environment was very collaborative, supportive, helpful and friendly. There were daily meets with the station employees (as well as CEO and COO, especially in the latter half of PS - 1)
*The company made their expectations clear in the first meet itself -
1) Ownership and initiative taking ability
2) Attention to detail in the assigned work, completing the assigned work
3) Clear communication as this was a remote internship
*Learning during PS - 1
1) Taking feedback frequently and incorporating it into the assigned work
2) Punctuality and sincerity in work
3) Communication and presentation skills (soft skills)
4) An attitude of taking the initiative
5) Team Work

Academic courses relevant to the project: Computer Programming, Data Structures and Algorithms, Foundations of Data Science, Machine Learning, Game Theory

Learning Outcome: 1) Learnt to apply AI techniques and Python constructs to generate structured educational content dynamically
2) Learnt algorithmic question generation
3) Studied Learner Patterns and common errors which students make while solving Math Questions

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PS-I station: SMARTSA TECH PRIVATE LIMITED, Pune

Student

Name: NAMAN SEN .(2023B1A30832P)

Student Write-up:

PS-I Project Title: Math Content generation through AI tools

Short Summary of work done: Developed a game for maths application, math content generation through python and ai tools, personalised learning pathway for user based application

Objectives of the project: To generate maths questions for high school students

Tool used: Pyhton

Details of Papers/patents: Report submitted

Brief description of the working environment: Very encouraging

Academic courses relevant to the project: IT field

Learning Outcome: Python and ai tools

PS-I station: SMARTSA TECH PRIVATE LIMITED, Pune

Student

Name: SARANSH AGRAWAL(2023B3A71123G)

Student Write-up:

PS-I Project Title: Automation of math question generation

Short Summary of work done: Made python scripts and LLMs to create math questions

Objectives of the project: Automation of math question generation

Tool used: VS code

Details of Papers/patents: None

Brief description of the working environment: Working environment was supportive from company side and I learnt lots of technical and interpersonal skills

Academic courses relevant to the project: General computer science

Learning Outcome: Python

PS-I station: SMARTSA TECH PRIVATE LIMITED, Pune

Student

Name: DIGVIJAY SINGH .(2023B4A70882P)

Student Write-up:

PS-I Project Title: Strategic Game Design for Enhancing Foundational Math Learning

Short Summary of work done: Many students find themselves struggling with foundational mathematics not because it's too hard, but because it seems abstract, repetitive and disconnected to many. This project reimagines math learning by integrating game design principles like progression, feedback, and rewards into a structured educational experience. Our goal is to reduce the anxiety which comes along with math and thereby increase motivation through interactive and strategic gameplay.

Objectives of the project: Coming up with game designs to reduce the overwhelming nature of mathematics and make maths more enjoyable

Tool used: 1) Python libraries : scikit, numpy, statsmodels, pandas 2) canva 3) google docs 4) presentation skills

Details of Papers/patents: none

Brief description of the working environment: Working environment was amazing with meets happening everyday to track progress, we were in continuous touch with the company and therefore taking feedback actively and not lagging behind in work. I learnt the basics behind game design, also delved into automated question generation using python.

Academic courses relevant to the project: 1) Optimization 2) Game Theory 3) Computer Programming

Learning Outcome: 1) Python libraries : scikit, numpy, statsmodels, pandas

2) canva
3) google docs
4) presentation skills

PS-I station: SN Capital Management Pvt. Ltd. , Noida

Student

Name: RISHI SOMANI .(2023A1PS0212P)

Student Write-up:

PS-I Project Title: Outreach and Lead Generation

Short Summary of work done: We were assigned a task to search on LinkedIn for potential investors or CAs who deal in unlisted stocks. We were asked to contact them on LinkedIn and request their WhatsApp numbers. Once we get their WhatsApp numbers, we send them regular pricing updates of the stocks available with us and ask if they are interested in buying any specific stocks.

Objectives of the project: To generate lead and sell the unlisted stocks

Tool used: LinkedIn, WhatsApp, Gmail

Details of Papers/patents: NA

Brief description of the working environment: The working environment was very light. All the industry mentors were easily approachable and helpful, even if you asked questions beyond the assigned projects. Meetings were not held regularly, and when they did happen, they usually lasted only about an hour. Complete freedom was given in how you managed your work. The only requirement was to provide at least one inquiry per day, even if the deal was not successful—they appreciated the effort. On average, you only needed to spend around 1 to 2 hours a day finding new contacts on LinkedIn. Overall, the workload was quite manageable and stress-free.

Academic courses relevant to the project: NA

Learning Outcome: Pre-IPO Market, LinkedIn Outreach, Unlisted Stocks

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PS-I station: SN Capital Management Pvt. Ltd. , Noida

Student

Name: AARAV DHADUK .(2023A4PS0624H)

Student Write-up:

PS-I Project Title: Investment Analysis and Client Engagement in the Unlisted and Pre-IPO Market

Short Summary of work done: We had to pitch 12 growing-stage companies in the unlisted shares, pre-IPO and private equity market. We had financial data of those companies which we used to pitch and attract investors. We used to bring market quotes, negotiate those and report to our mentors and they would take it forward from there for deal finalization.

Objectives of the project: 1. Gain exposure to Pre-IPO and unlisted shares market 2. Understand valuation, outreach, and market dynamics 3. Collaborate on transactions

Tool used: LinkedIn, Google Sheets

Details of Papers/patents: NA

Brief description of the working environment: It was an online station. We used to have meets for training sessions and for checking up on the progress. We had to do work on our own, mentors would help when needed. Mentors expected regular work to be done. It was basically a sales and marketing role so nothing to learn on the technical sides but more on soft skills.

Academic courses relevant to the project: yes

Learning Outcome: Investor Targeting, negotiation and client management

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PS-I station: SN Capital Management Pvt. Ltd. , Noida, Noida

Student

Name: JAIN NIVAN VISHAL .(2023B3A71004P)

Student Write-up:

PS-I Project Title: Sales/Marketing Outreach

Short Summary of work done: As part of my project at SN Capital, I've been reaching out to people working at trading and investment firms that focus on unlisted shares and pre-IPO investments. My main task is to tell them about the investment opportunities in the companies SN Capital is currently involved with. The goal is to build connections with key industry professionals, explain the investment options we offer, and encourage them to consider investing in these unique opportunities.

Objectives of the project: The project from SN Capital involves contacting professionals at trading and investment firms specialising in unlisted stocks and pre-IPO investments, with the goal of presenting and pitching investment opportunities from our portfolio companies.

Tool used: LinkedIn, Google sheets

Details of Papers/patents: Sales/Marketing Outreach

Brief description of the working environment: Working environment is good
Gaining effective communication abilities in conducting outreach activities supported by comprehensive financial expertise.
Communication skills through outreach and financial knowledge.

Academic courses relevant to the project: Basic Fundamentals of Finance
Derivatives and risk management

Learning Outcome: Communication skills through outreach and financial knowledge

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PS-I station: SN Capital Management Pvt. Ltd. , Noida, Noida

Student

Name: VARAN BHATIA .(2023B3AA0960P)

Student Write-up:

PS-I Project Title: Outreach for Pre IPO Shares

Short Summary of work done: Outreach for Pre IPO Shares

Objectives of the project: Outreach

Tool used: Excel

Details of Papers/patents: no

Brief description of the working environment: good

Academic courses relevant to the project: yes

Learning Outcome: Outreach in finance

PS-I station: Sober Horizons Foundation, Gurgaon

Student

Name: SOUVIK MONDAL .(2023A2PS0861P)

Student Write-up:

PS-I Project Title: Strategic Digital Outreach for Substance Abuse Awareness and Prevention

Short Summary of work done: During my Practice School-I internship at Sober Horizon Foundation, I contributed to a social media-based outreach campaign focused on spreading awareness about substance abuse prevention. The project aimed to build an online presence for the foundation, connect with like-minded individuals and organizations, and promote a drug-free lifestyle among youth. In the initial weeks, I worked on understanding the organization's mission and developed a branding strategy, which included designing a logo and framing a consistent visual and content identity. I actively contributed to creating Instagram posts and writing captions that aligned with our campaign goals. In Weeks 4 and 5, I focused on identifying and reaching out to youth influencers across LinkedIn and Instagram. We built a database of potential collaborators and initiated communication with those who aligned with our values. In Weeks 6 to 8, we extended this outreach to wellness and detox brands across India, researching their vision and establishing potential partnerships. Throughout the internship, I maintained detailed logs of influencer and brand outreach, helped manage response sheets, and contributed ideas for content creation and collaboration. I also learned how to leverage tools like Google Sheets and Canva to organize data and design campaign materials. Overall, the experience helped me develop a practical understanding of digital communication, content planning, and stakeholder engagement in a non-profit social impact setting.

Objectives of the project: The primary objective of the project was to raise awareness about substance abuse among youth by leveraging the power of digital media and influencer engagement. The project aimed to build a strong online presence for Sober Horizon Foundation through strategic content creation, branding, and collaboration with social media influencers and wellness brands who align with the foundation's mission. Additionally, the goal was to create a sustainable network of partners and advocates while researching best practices in addiction prevention to enhance campaign effectiveness and outreach.

Tool used: During the course of the internship, I utilized a range of tools and platforms to perform tasks related to content creation, communication, data management, and research. The key tools include: Canva – For designing social media posts, story templates, and infographics. Google Sheets – To maintain collaboration trackers and logs of influencer and brand outreach. Google Docs – For writing captions, reports, and maintaining shared documentation. LinkedIn – For professional outreach and identifying potential influencer collaborators. Instagram – For monitoring campaign engagement, analyzing similar awareness accounts, and reaching out to influencers. Google Forms – Used for gathering responses and interest from potential collaborators. WhatsApp/Email – For direct communication with influencers and brand representatives. Microsoft PowerPoint – For preparing presentations and weekly progress summaries.

Details of Papers/patents: N.A.

Brief description of the working environment: During my Practice School-I internship at Sober Horizon Foundation, I contributed to a social media-based outreach campaign focused on spreading awareness about substance abuse prevention. The project aimed to build an online presence for the foundation, connect with like-minded individuals and organizations, and promote a drug-free lifestyle among youth.

In the initial weeks, I worked on understanding the organization's mission and developed a branding strategy, which included designing a logo and framing a consistent visual and content identity. I actively contributed to creating Instagram posts and writing captions that aligned with our campaign goals.

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Throughout the internship, I maintained detailed logs of influencer and brand outreach, helped manage response sheets, and contributed ideas for content creation and collaboration. I also learned how to leverage tools like Google Sheets and Canva to organize data and design campaign materials.

Overall, the experience helped me develop a practical understanding of digital communication, content planning, and stakeholder engagement in a non-profit social impact setting.

Academic courses relevant to the project: N.A.

Learning Outcome: During the course of my PS-I internship at Sober Horizon Foundation, I gained hands-on experience in digital campaign management, influencer marketing, and social impact communication. I developed a deep understanding of how to align an organization's mission with effective outreach strategies on platforms like Instagram and LinkedIn. I also learned how to curate compelling content, frame appropriate messages for social causes, and track engagement metrics for continuous improvement.

Through practical exposure, I improved my skills in professional communication, data management using collaboration trackers, and identifying potential partners and influencers with shared values. Additionally, I learned the importance of consistent branding, campaign planning, and the value of targeted messaging in driving awareness and action on social issues such as substance abuse prevention.

PS-I station: Sober Horizons Foundation, Gurgaon

Student

Name: SAANVI MAURYA .(2023A5PS1210P)

Student Write-up:

PS-I Project Title: Social media outreach and awareness internship

Short Summary of work done: I had to prepare introductory post for the company expressing their aim and goals to be posted on Instagram, Twitter and LinkedIn in the first two weeks. Then for the rest of the PS, I had to increase the following and reach out to like minded people or organisations and try to connect with them.

Objectives of the project: As this was new NGO they wanted us to reach out to as many people and organisations possible and let them know of or presence and aim.

Tool used: Canva, Perplexity, CharGPT

Details of Papers/patents: None

Brief description of the working environment: The company did expected 4-6hrs. of time from us daily. But if you are able to finish your tak in less time they would not hand you another task just because you have finished the task in less time. All in all the work environment was good.

Academic courses relevant to the project: All (Little bit)

Learning Outcome: How to reach out and to spread awareness among people especially for a company that has just been established.

PS-I station: Social Seller Technology Pvt. Ltd, Raipur

Student

Name: ANSHITA PANDEY .(2023A2PS1223H)

Student Write-up:

PS-I Project Title: PLANNING ORGANIC BUSINESS GROWTH STRATEGY FOR HAPPY STAFF – AN AI-POWERED TASK MANAGEMENT TOOL

Short Summary of work done: During the eight-week internship at Social Seller Technologies, I worked as part of a two-member Growth Team on a project focused on Happy Staff, an AI-powered task management platform for MSMEs. In the initial weeks, I conducted in-depth research on competitors like Trello, ClickUp, and Asana to identify feature gaps, followed by the creation of a detailed three-month organic growth roadmap covering YouTube, WhatsApp, Instagram, and LinkedIn. As the project progressed, I wrote a set of YouTube scripts built around relatable MSME problems and emotional storytelling to increase viewer engagement. I also planned and scripted a webinar titled Team Management Masterclass, aimed at onboarding users while demonstrating product features in a workshop-style format. The final webinar deck was designed with case studies, visual walkthroughs, and compelling CTAs. This hands-on experience helped me understand the interplay between content, strategy, and user conversion in early-stage SaaS products.

Objectives of the project: The objective of the project was to design and partially execute a low-cost, organic growth strategy for Happy Staff, a task management SaaS tool built for Indian MSMEs. The aim was to increase product awareness, build user trust, and convert free users into paying customers through storytelling, content-led engagement, and webinar-based onboarding. The strategy had to be scalable, execution-ready, and aligned with the needs of non-technical business users without relying on paid advertisements.

Tool used: The primary tools I worked with during this project were Canva for visual design, Notion for content tracking and documentation, and ChatGPT for script structuring and ideation. I used Google Workspace for collaboration and documentation, YouTube and Google Trends for video benchmarking and trend analysis, and studied WhatsApp Business API to understand integration flows and automated user engagement.

Details of Papers/patents: No papers or patents were produced as part of this project.

Brief description of the working environment: The working environment at Social Seller Technologies was highly collaborative, creative, and startup-oriented. The team operated with agility, and we were encouraged to take initiative and ownership of our tasks from Day 1. The company expected us to think strategically, stay user-focused, and contribute actionable solutions, not just ideas. My mentor provided us with regular feedback, which helped me iterate more effectively and refine my work to meet real-world business standards. The freedom to experiment with content and design also helped me learn quickly and adapt. I became more confident in presenting my ideas, working with feedback loops, and communicating effectively in a business context. The internship helped me apply my classroom learnings to a practical marketing and product strategy setting for the MSME sector.

Academic courses relevant to the project: FOFA (Fundamentals of Finance & Accounting), FM (Financial Management)

Learning Outcome: Through this internship, I gained valuable exposure to the real-world execution of a SaaS growth strategy. I learned how to write high-conversion YouTube scripts tailored to MSME users, how to benchmark and extract learnings from competitors, and how to plan engaging webinars that blend education with product showcasing. I also developed skills in content ideation, trend analysis, storytelling, and the ability to align marketing assets with business goals. Working directly under the founder's mentorship, I learned to take ownership of projects and deliver assets that could be directly implemented in real-world business environments.

PS-I station: Social Seller Technology Pvt. Ltd, Raipur

Student

Name: JASH MANIAR(2023AAPS1062G)

Student Write-up:

PS-I Project Title: Landing Page for Happy Staff and API-Integrated Dashboard for Super Seller

Short Summary of work done: During my PS-I at Social Seller, I worked on two major projects, Happy Staff and Super Seller. For Happy Staff, I designed and developed a responsive landing page to effectively present the brand's offerings and enhance user engagement. For Super Seller, I built a functional dashboard integrated with backend APIs to fetch, process, and display real-time data, ensuring efficient visualization and smooth user interaction. The work involved applying HTML, CSS, and JavaScript, implementing asynchronous data handling, optimizing performance, and maintaining code scalability. I also gained experience with version control using Git, debugging, and collaborating within a development team. This internship provided hands-on exposure to practical web development workflows, strengthened my technical skills, and improved my problem-solving abilities in building scalable, user-focused applications.

Objectives of the project: The objective of the project was to design and develop a responsive and visually appealing landing page for Happy Staff to effectively present the brand's offerings

and enhance user engagement. Additionally, the project aimed to create a functional dashboard for Super Seller with API integration to enable seamless real-time communication with the backend and provide efficient data visualization. The focus was on ensuring smooth user experience, scalability, and maintainability of the developed web applications.

Tool used: HTML, CSS, JavaScript, Git, API testing tools

Details of Papers/patents: Not applicable

Brief description of the working environment: The PS-I at Social Seller was conducted in an online working environment, which required effective communication and coordination through virtual collaboration tools. The company expected timely delivery of assigned tasks, adherence to coding standards, and proactive problem-solving. Regular progress updates and reviews were part of the workflow, ensuring alignment with project requirements. The remote setup provided flexibility while also fostering self-discipline and independent learning. During the internship, I gained practical experience in front-end development, API integration, and real-time data handling, along with exposure to version control practices and debugging techniques. The experience enhanced my technical skills, time management abilities, and adaptability to a professional development setting.

Academic courses relevant to the project: Computer programming

Learning Outcome: During the project, I gained hands-on experience in front-end development, including responsive web design principles and UI/UX optimization. I developed skills in integrating APIs to fetch and manage real-time data from a backend server, as well as handling asynchronous requests efficiently. The work also enhanced my understanding of component-based development, code organization, and version control practices, while improving my problem-solving abilities in debugging and optimizing web applications.

PS-I station: Social Seller Technology Pvt. Ltd, Raipur

Student

Name: GARV CHACHAN .(2023B5A81238H)

Student Write-up:

PS-I Project Title: Happy Staff Landing Page and Live-Dashboard Creation for Social Seller

Short Summary of work done: We were divided into 2 teams-TECH and PRODUCT MANAGEMENT. Then as a member of the tech team, I was given the responsibikty like all the others to create a landing page for the app Happy Staff. So we studied the app and decided the best options to be put on a landing page and not being from a tech background, I learnt CSS,HTML, JavaSrcipt a bit and learnt to use AI tools that helped in the development. After this project, we got the responsibilty of working together to create a live dashboard for Social Seller. The mentor gave us the previous website and a demo website which we were to take inspiration from. We divided the work between all of us. I took the work of making the inventory management section along with multiple other sub-sections. In the end, our works were combined in Git Hub

Objectives of the project: Creating a Landing Page for the app Happy Staff and Creating a Live Dash Board for Social Seller

Tool used: VS Code, ChatGPT, Vercel, Postman, Youtube

Details of Papers/patents: None

Brief description of the working environment: Working enviornment was great as I got along quite fast with all my peers. The mentor was also supportive providing valuable insights into the work given and how to improve it to match the industry levels.

Academic courses relevant to the project: yes

Learning Outcome: Web Development, UI/UX, Teamwork

PS-I station: SocialTAG Media LLP, Mumbai

Student

Name: ANKITA OTTA .(2023A5PS1029H)

Student Write-up:

PS-I Project Title: Search for matcha selling base in Indian market

Short Summary of work done: -Found suppliers for matcha packaging -rewrote 1947s menu -helped Land.opedia get more viewers -comprtitir analysis

Objectives of the project: Marketing and branding

Tool used: MS WORD, MS excel, Gen Ai, Canva

Details of Papers/patents: -

Brief description of the working environment: Working environment was very calm and casual.

Academic courses relevant to the project: Management mostly

Learning Outcome: Marketing and branding

PS-I station: SRCR Constructions – Economics & Finance, Visakhapatnam

Student

Name: MYPALA CHARAN .(2023A3PS0356H)

Student Write-up:

PS-I Project Title: EMI VS PORTFOLIO

Short Summary of work done: The project analyzed the financial trade-off between education loan repayment and SIP-based investments, using a ₹30 lakh baseline. Loan structures and investment returns were compared using historical market data, with risks measured by standard deviation and Sharpe ratio; the findings highlight how investments can potentially ease loan burdens while accounting for real-world risks.

Objectives of the project: The project aims to compare Education Loan EMI repayment with Stock Market Portfolio investment for a ₹30 lakh education cost, evaluating risk, return, and financial feasibility.

Tool used: Work was carried out using MS Excel, Python (Pandas, Matplotlib), Yahoo Finance API, and standard workstation hardware.

Details of Papers/patents: No papers or patents have been filed, though the work has potential for future research publication.

Brief description of the working environment: The environment was research-driven and collaborative, with expectations of structured analysis, regular reporting, and practical application of academic knowledge; the experience enhanced my financial modeling, data analysis, and professional communication skills.

Academic courses relevant to the project: Relevant courses include Finance, Portfolio Management, Statistics, Economics, and Quantitative Methods.

Learning Outcome: I gained knowledge of portfolio management, financial modeling, and decision-making in personal finance along with practical skills in data analysis and risk-return evaluation.

PS-I station: STAMPMYVISA, Delhi

Student

Name: KAUSTUBH YADAV .(2023A1PS0167P)

Student Write-up:

PS-I Project Title: Generalist

Short Summary of work done: At StampMyVisa, I played a pivotal role in streamlining operations and enhancing the client experience in the visa and immigration services domain. I independently analyzed and optimized key workflow processes, identifying bottlenecks and redesigning them to improve efficiency and reduce turnaround time. This included creating

comprehensive SOPs and user guides that reduced training time and improved onboarding for internal teams. I was responsible for designing and documenting end-to-end visa application processes for multiple countries, ensuring compliance with regulatory guidelines while simplifying client navigation. My work directly contributed to a 30% reduction in application errors and significantly improved customer satisfaction. Additionally, I collaborated with the tech and product teams to provide user feedback and process insights, which were incorporated into a redesigned dashboard interface to enhance user engagement and usability. I also worked closely with consultants to understand client pain points, enabling me to proactively suggest improvements that aligned with business goals. Throughout my time, I demonstrated ownership, problem-solving, and communication skills by liaising with multiple stakeholders while independently handling research-heavy tasks. My contribution helped build a scalable operational foundation for the company as it prepared for expansion.

Objectives of the project: Project Objective: The primary objective of the project was to streamline and standardize the visa application processes across multiple countries by identifying operational inefficiencies, creating clear documentation (SOPs), and improving internal workflows. The goal was to enhance the overall user experience, reduce processing errors, and build scalable systems that would support StampMyVisa's growth and improve turnaround time for clients.

Tool used: Loom OBS Claud Ai

Details of Papers/patents: None

Brief description of the working environment: Working Environment:
StampMyVisa offered a fast-paced and dynamic startup environment where responsibilities were diverse and ownership was encouraged. The team operated with a flat hierarchy, which fostered open communication, quick decision-making, and direct interaction with the founding team. Despite limited resources, the environment was highly collaborative, with a strong focus on problem-solving, adaptability, and delivering value to customers.
Company Expectations:
The company expected a high degree of independence, initiative, and accountability from interns and full-time members alike. There was a strong emphasis on delivering high-quality work with minimal supervision, meeting tight deadlines, and constantly identifying inefficiencies to improve processes. Critical thinking, attention to detail, and customer-centricity were highly valued.
Key Learnings:
During my tenure, I gained hands-on experience in process design, user-focused operations, and cross-functional collaboration. I learned to manage ambiguity, take ownership of end-to-end tasks, and communicate effectively with both internal teams and external stakeholders. I also developed a deep understanding of how early-stage startups scale systems and operations while maintaining agility and customer satisfaction.

Academic courses relevant to the project: yes

Learning Outcome: Improvement in soft skills

PS-I station: STAMPMYVISA, Delhi

Student

Name: AADITYA NANDKUMAR BHAGAT .(2023A7PS0131H)

Student Write-up:

PS-I Project Title: Research of visa procedures for various countries and creating on boarding resources

Short Summary of work done: Creative creation of on boarding videos and resources for future employees

Objectives of the project: On boarding resource creation

Tool used: Canva, iMovie, Discord

Details of Papers/patents: -

Brief description of the working environment: The working environment was friendly and conducive to learning. The company expected work, which would help us step up as well as know more about the process the conduct as part of the activities.

Academic courses relevant to the project: Business Communication

Learning Outcome: Visa procedures, processing visa using automation.

PS-I station: STAMPMYVISA, Delhi

Student

Name: SAKET SINGH(2023A8PS0560G)

Student Write-up:

PS-I Project Title: Analyzing and Structuring of Canada and Italy Visa Applications for Indian Citizens

Short Summary of work done: Prepared documents containing all details about visa process for an Indian citizen for Canada and Italy, prepared a video and presented it for the company.

Objectives of the project: Make the visa process as easy and automated for the consumer as possible and make all necessary information easy to find and in a well-curated manner.

Tool used: Google Docs, Loom AI, OBS, Canva, MS PPT, ChatGPT, Perplexity AI

Details of Papers/patents: N/A

Brief description of the working environment: Learnt about the visa process in-depth for various countries for Indian citizens. Was expected to prepare industry level professional explanatory videos for the company on how to complete the visa application process.

Academic courses relevant to the project: N/A

Learning Outcome: Learnt about the visa process in-depth, video editing and market research.

PS-I station: STAMPMYVISA, Delhi

Student

Name: DEBIDUTTA DASH .(2023A8PS1383H)

Student Write-up:

PS-I Project Title: DOCUMENTATION AND VIDEO COURSE DEVELOPMENT FOR GLOBAL EVISA PROCESSES

Short Summary of work done: • Created standardized documentation for the following countries: Indonesia, Kenya, Kyrgyzstan, Madagascar, Philippines, and New Zealand.Used Gamma AI to convert document content into presentation decks, then used Evelyn Labs to generate voiceover training videos. This task enhanced knowledge dissemination through audio-visual mediums, ideal for new joinee onboarding and portal marketing.

Objectives of the project: To create an integrated knowledge system for global eVisa processes at Stampmyvisa by: Preparing detailed visa documentation for specific countries Developing assessments for recruitment and internal evaluation Transforming the documentation into accessible audio-visual formats

Tool used: Gamma ai, Evlyn labs

Details of Papers/patents: no

Brief description of the working environment: Work hours were flexible.hardik@stampmyvisa.com

Academic courses relevant to the project: None in particular

Learning Outcome: Comprehensive and real word knowledge of evisa process of different countries. We are getting more aware about practical scenarios during the application process of evisa.

PS-I station: STAMPMYVISA, Delhi

Student

Name: DHRUV AGARWAL(2023B2AA0749G)

Student Write-up:

PS-I Project Title: Understanding and Presenting video presentation for visa presentation for various Countries

Short Summary of work done: The country I was given to research on was Australia My work at StampMyVisa can be divided into three broad things Firstly, researching about the Australian visa process and presenting a document which can be sent to travel agents and help them in understanding the details about the visa process of the country and place an order at StampMyVisa Second,making an elaborate presentation about the visa process so that the general public can refer to it and be educated about the process without losing interest which can happen in case of a document Lastly, I was instructed to make a video on the topic which covers every precise detail and intricacy about the process and explains the earlier mentioned presentation to the public.

Objectives of the project: Making document and video document for Australia and Ireland

Tool used: Canva, Elevenlabs

Details of Papers/patents: n/a

Brief description of the working environment: The company provided a great platform to learn and explore.
Academic courses relevant to the project: n/a

Learning Outcome: Presentation skills

PS-I station: Suzlon Foundation, Pune

Student

Name: JAY MISHRA .(2023A4PS0439P)

Student Write-up:

PS-I Project Title: Topic: Strategic CSR Internship – Data-Driven Operations, Stakeholder Engagement & Grassroots Execution

Short Summary of work done: Completed assigned tasks across multiple modules, contributed to team discussions, and maintained weekly progress reports. Automated repetitive tasks to improve efficiency and reduce manual effort. Gained exposure to professional tools and workflows, while developing key technical and soft skills.

Objectives of the project: To gain practical industry exposure by contributing to real-world projects, enhancing technical and professional skills through hands-on tasks, team collaboration, and problem-solving in a structured corporate environment.

Tool used: VS Code, Microsoft Office PPT,Word Google Forms

Details of Papers/patents: No papers.

Brief description of the working environment: I improved my technical skills and understood workplace expectations.

Academic courses relevant to the project: Technical Report Writing

Learning Outcome: 1.Team Collaboration & Communication
Gained hands-on experience working in a structured team environment, coordinating tasks and updates through professional channels and tools.
2. Task Ownership & Time Management
Learned to take initiative on assigned modules and meet deadlines independently, while tracking progress and aligning with the project timeline.
3. Technical Skill Enhancement
Enhanced proficiency in domain-specific tools and technologies, including scripting, interface design, or dashboard creation (depending on your exact role).
4. Professional Documentation & Reporting
Developed the ability to maintain detailed logs, write weekly reports, and summarize technical progress effectively — a critical corporate skill.
5. Problem-Solving in Real-World Scenarios
Tackled real-world technical or operational challenges, applying classroom learning to practical industry-level problems.

PS-I station: SyncUp, Indore

Student

Name: ADITYA VERMA .(2023A5PS1168P)

Student Write-up:

PS-I Project Title: Founders Office, Investor Relations and Strategic planning

Short Summary of work done: During my PS-I at SyncUp, I contributed to the company's ongoing fundraising round by supporting investor research, outreach, and strategic planning activities. My primary responsibilities included identifying and profiling potential investors, accelerators, and venture capital firms relevant to SyncUp's domain and stage. I assisted in preparing pitch materials, investor communication templates, and presentations to ensure consistent and impactful outreach. I worked closely with the founding team to structure a systematic investor pipeline, track conversations, and prioritize follow-ups based on investor interest and alignment. Additionally, I contributed to refining SyncUp's positioning and key messaging in its pitch deck to better resonate with target investors. Through this internship, I gained practical exposure to the early-stage fundraising process, learned how startups approach investors, and developed skills in market research, professional communication, and strategic planning. The experience provided me with valuable insights into startup operations, capital-raising challenges, and the importance of relationship-building in investor relations.

Objectives of the project: Support SyncUp's live fundraising round by contributing to investor outreach and relations. Assist in strategic planning for fundraising activities, including research on potential investors and preparing pitch materials. Develop structured processes for tracking investor interactions and maintaining communication pipelines. Gain insights into fundraising strategy for an early-stage startup, including market positioning and investor targeting.

Tool used: Microsoft Excel / Google Sheets – for investor database creation, pipeline tracking, and research compilation. Google Slides / PowerPoint – for preparing investor pitch decks and presentations. Notion / Trello / Airtable (if applicable) – for task and pipeline management. Email & LinkedIn – for investor outreach and communication. Google Docs – for drafting communication templates and research summaries.

Details of Papers/patents: -

Brief description of the working environment: During my PS-I at SyncUp, I worked in a highly collaborative and dynamic startup environment. The company encouraged open communication, initiative, and adaptability, which allowed me to take ownership of tasks and

contribute meaningfully to its ongoing fundraising efforts. The working environment was supportive, with the founding team providing constant guidance and feedback while also expecting a proactive approach to problem-solving and independent research.
The company expected interns to be resourceful, detail-oriented, and capable of delivering high-quality outputs within tight timelines. I was encouraged to understand the fundraising landscape, identify potential investors, and assist in creating impactful pitch materials. Regular discussions with the team helped me align my work with SyncUp's strategic objectives and refine my understanding of startup operations.
Through this experience, I gained significant insights into early-stage fundraising, investor relations, and startup strategy. I learned how to research and evaluate potential investors, structure outreach efforts, and create communication materials that resonate with stakeholders. The internship also helped me improve my professional communication, presentation, and organizational skills. Overall, the PS-I provided me with practical exposure to the challenges and opportunities faced by a young startup and enhanced my ability to contribute effectively in a fast-paced, entrepreneurial setting.

Academic courses relevant to the project: DRM, FundaFin

Learning Outcome: Practical understanding of startup fundraising – Gained hands-on exposure to the end-to-end fundraising process for a pre-seed startup.
Investor research and outreach skills – Learned how to identify, evaluate, and approach relevant investors and accelerators.
Pitch material development – Improved ability to prepare compelling decks and communication for potential investors.
Strategic planning and organization – Understood how startups plan timelines, track investor conversations, and prioritize outreach.
Professional communication skills – Enhanced email writing, presentation, and relationship management with external stakeholders.

PS-I station: SyncUp, Indore

Student

Name: SHANTANU PANDEY (2023A7PS0110H)

Student Write-up:

PS-I Project Title: Fullstack AI interview platform

Short Summary of work done: We made a standalone website that used a voice assistant to take interviews. The company later used the code we wrote as part of a bigger app they were working on. We learned how to build both the front-end and back-end, how to connect to AI using APIs to create interviews, and how to save the data in a database. We also tested the app to make sure everything worked well.

Objectives of the project: Build and deploy a full stack real Time Artificially Intelligent voice Agent Interview Platform

Tool used: MongoDb, Node.js, Express.js, TypeScript, Next.js, GitHub, Vapi AI, Gemini AI.

Details of Papers/patents: -

Brief description of the working environment: We were first introduced to the project and the tools we needed to use. For the first two weeks, we spent time learning how to use those tools. After that, we started working on the project, figuring out what needed to be done and making a plan. Then, with help from our mentor, we began building the website. We had daily meetings where we shared what we worked on that day, and based on that, our mentor would give us new tasks to do.

Academic courses relevant to the project: OOPS, DBMS

Learning Outcome: Web development and Artificial Intelligence

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PS-I station: SyncUp, Indore

Student

Name: ARYAN ANIL DONGARE .(2023AAPS0194H)

Student Write-up:

PS-I Project Title: AI mock interviewer

Short Summary of work done: SyncUp is a HR management and recruitment firm. So, I created an AI voice agent capable of conducting interviews based on user inputted parameters. These interviews are then analysed and graded out of 100 on various parameters which can be used to evaluate prospective candidates. The voice agent can also be used to conduct mock interviews for practice.

Objectives of the project: create an AI voice agent capable of conducting mock interviews and providing feedback

Tool used: Google's Gemini, Vapi voice agents, Typescript, Node.js, React

Details of Papers/patents: NA

Brief description of the working environment: The working environment was very supportive. The company personnel helped me out whenever required and provided me with the guidance I needed to carry out this project.

Academic courses relevant to the project: yes

Learning Outcome: AI thinking and how to prompt, web development

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PS-I station: SyncUp, Indore

Student

Name: DIGANT SOLANKI .(2023B3A41010P)

Student Write-up:

PS-I Project Title: SyncBoard

Short Summary of work done: I created a production dashboard for integration into the company's web service

Objectives of the project: To create a production grade admin dashboard

Tool used: React,Node, JavaScript, Typescript, Racket

Details of Papers/patents: N/A

Brief description of the working environment: It was good

Academic courses relevant to the project: yes

Learning Outcome: Web development

PS-I station: Tata Institute of Fundamental Research, Hyderabad

Student

Name: KRISHNA RAGHUNATH .(2023A1PS0213P)

Student Write-up:

PS-I Project Title: Synthesis of Triarylboranes, Bis imine and Stillebene derivatives of various compounds.

Short Summary of work done: With my assigned PI, we were not assigned with any separate work. Rather I was asked to assist the PhD students who were already conducting their research. As we mirrored them during their rounds, we got accustomed to the equitment and procedures in the laboratory. They were welcome with any doubts or questions that we had, and the lab was inclusive.

Objectives of the project: To prove the existence of and synthesize the triarylborane, bis imine and stillebene derivatives of various compounds.

Tool used: ChemDraw, Word, PowerPoint

Details of Papers/patents: The paper itself was about certain compounds called triarylboranes, along with certain bis imine and stillbene derivatives. We discussed synthesis methods and analyzed the NMR of the synthesized products, proving their existence.

Brief description of the working environment: The working environment was dynamic and supportive with a lot of things happening. Our advisors were open to questions

Academic courses relevant to the project: Engineering Chemistry

Learning Outcome: Understanding the the principles of organometallic chemistry, while observing and using the various apparatus involvedz including schlenk lines, rotovaps, flasks and distillation columns

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PS-I station: Tata Institute of Fundamental Research, Hyderabad

Student

Name: DAKSH SANTOSH KUCHERIYA .(2023B2A80926P)

Student Write-up:

PS-I Project Title: Building a low-cost stage-top incubation device for live cell imaging

Short Summary of work done: Live imaging of human cells over extended periods requires maintaining optimal growth conditions - 36-37o C, high humidity and 5-7% CO2 while the sample remains on a microscope stage. Commercial stage-top incubators are effective but cost-prohibitive for many labs with prices ranging from $12,000 to $14,000. Leveraging 3D printing and affordable electronics, the “DIYncubator” offers a customizable, low-cost alternative at approximately $250. My task was to modify the "DIYncubator" and make it under 10,000 rupees. I successfully made the design of the chamber using OnShape and learned about Arduino.I used Arduino to write the codes for successfully operating different electronic parts like servo motor and solenoid valve which will be used in making the device

Objectives of the project: To make a low-cost incubation device for live cell imaging

Tool used: OnShape, Arduino IDE, Arduino board

Details of Papers/patents: Worcester, M., Gomez, M., Mishra, P., Meyers, Q., & Kuhlman, T. E. (2023). A low-cost stage-top incubation device for human cell imaging using rapid prototyping methods. bioRxiv, 2023-09.

Brief description of the working environment: The working environment was quite good. The labs were quite modern and well equipped with many different instruments. The mentors and the higher degree students were very helpful and supporting. The canteen also served delicious food. The company was quite supportive of us and did not rush us for any task. I worked on my project with a peaceful mind . I learnt how to use OnShape with the help of the people from workshop . My mentor helped me learn Arduino and during the lab meetings with the higher degree students , I learnt various new things in the domain of biophysics.

Academic courses relevant to the project: Biophysics, Super-resolution microscopy

Learning Outcome: Learned how to use OnShape(online platform used to design hardware) , Arduino and its connections with different sensors

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PS-I station: Tata Institute of Fundamental Research, Hyderabad

Student

Name: DAVID MATHEW VAYALIPARAMBIL .(2023B5A31096P)

Student Write-up:

PS-I Project Title: Simulation, fabrication and measurement of tunnel resistance device

Short Summary of work done: Tunnel resistance devices can be approximated to trapezoidal potential barriers. I modelled this type of barrier on matlab

Objectives of the project: To model a tunnel resistance device using the BDR framework

Tool used: Matlab

Details of Papers/patents: -

Brief description of the working environment: Helpful and supportive

Academic courses relevant to the project: Quantum Mechanics 1, electronic devices

Learning Outcome: Introduction to mathematical modelling.

PS-I station: Tata Institute of Fundamental Research, Hyderabad

Student

Name: CHETAN SATSANGI MEDISETTI .(2023B5A70451H)

Student Write-up:

PS-I Project Title: Machine Learning applications in Atomic Simulations.

Short Summary of work done: My work started off with literature review and studying the mathematical structure of Kernel Ridge Regression and Principal Component Analysis. Upon reviewing multiple papers I learnt the application of these concepts in computational chemistry. Further, I was tasked with writing a code to built Descriptor Files for all atoms out of the QM9 dataset of 6094 molecules and perform Kernel Ridge Regression on the dataset to study prediction accuracies and learning curves of the ML model. Additionally, I also assisted in building the code for generating a many body approximated descriptor, which accounts for two body and three body interactions. This invloved the study of various kinds of potentials used in the Universal Force Field.

Objectives of the project: To build descriptors and predict localized forces of atom by using Kernel Ridge Regression and Principal Component Analysis by preserving translational, rotational and permutational symmetry.

Tool used: Majorly worked on Python. My report was written in Latex using Overleaf.

Details of Papers/patents: No paper published using my work as of yet.

Brief description of the working environment: The working environment is very friendly. Timings are flexible and can be discussed about with the mentor and/or their PhD student. I

worked majorly with the PhD student. The institute had expected me to have basic fundamentals of Python, Linear Algebra and basic knowledge of Chemistry for the purpose of my project. I received ample help from the PhD student to guide me with resources through the course of my project.

Academic courses relevant to the project: Mathematics 2 (Linear Algebra), General Chemistry(very basics), Classical Mechanics(Topics of Lagrangian used in the model), Quantum Mechanics 1(For better understanding of abstract spaces)

Learning Outcome: I learnt the use of Scikit Learn and OpenBabel packages in python.

PS-I station: Tata Institute of Fundamental Research, Hyderabad

Student

Name: ABHYUDAI SRIVASTAVA .(2023B5AA0798H)

Student Write-up:

PS-I Project Title: CFD Simulations of Thin Liquid Sheets

Short Summary of work done: Most of my work involved modeling high velocity inlet nozzles aligned at an angle to each other within a low pressure air chamber. Exoerimentally, we see the evolution of a stable thin leaf-shaped liquid sheet from the collision point of the two jets. We intended to run the simulations so that, in addition to experimental results, we would have a computational study of the effects of various parameters on the sheet evolution

Objectives of the project: To simulate the collision of laminar liquid jets and study evolution of sheet from the stagnation point

Tool used: COMSOL 6.3

Details of Papers/patents: NA

Brief description of the working environment: The environment at TIFRH is very unique in that it's an interdisciplinary academic environment. The research focuses do not completely fall

under the umbrella of any single field, and the exchange of knowledge is encouraged through regular meetings and talks by researchers from both India and abroad. The research scholars are very knowledgeable and friendly, and were the main points of contact for us. The professors themselves stay quite busy but are willing to discuss progress and give suggestions whenever you visit their office. There isn't much pressure on interns as the expectations are low, but consistency and effort is still expected. The insitute provided living provisions near the campus itself, and their mess is quite cheap and good too.

Academic courses relevant to the project: Classical Mechanics, MeOW, Computational Physics,

Learning Outcome: Understood behaviour and physics of laminar fluid flows, and basics of computational fluid dynamics

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PS-I station: Tata Institute of Fundamental Research, Hyderabad

Student

Name: SREE HARSHA G .(2023B5AA0862H)

Student Write-up:

PS-I Project Title: RF PCB Design

Short Summary of work done: I worked on redesigning an RF PCB used in an ESR setup involving superconducting circuits. The original board supported only an expensive RF connector, so my task was to modify it for a cheaper one while still maintaining proper impedance matching. I edited the Gerber files using KiCad, fixed the track width based on connector dimensions, and adjusted the layout and physical stack up accordingly. Simulations were done in Ansys to check S11 for impedance matching and optimize the design. I also designed an aluminum enclosure to provide RF shielding and mechanical support.

Objectives of the project: Design a custom PCB to act as an evaluation board for an RF switch, design a RF shielding enclosure for the PCB

Tool used: KiCad, Ansys HFSS, Autodesk Fusion

Details of Papers/patents: -

Brief description of the working environment: The constant feedback from the junior research fellows working under my mentor helped me learn continuously and perform better.

Academic courses relevant to the project: Electromagnetic theory 2, RF and Microwave Engineering

Learning Outcome: Transmission line theory, PCB design using Kicad, simulation of RF PCB using Ansys HFSS, 3D modelling

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PS-I station: Yana Travel Pvt Ltd, Bangalore

Student

Name: RIDDHIMAN SENGUPTA(2023A1B40108G)

Student Write-up:

PS-I Project Title: Location Specific News Fetching

Short Summary of work done: Yana.travel is a travel–tech startup. It focuses on providing customers with tools that streamlines the process of trip planning and booking. The feature I worked on aimed to provide a customer with relevant news and weather information based on the locations they would want to visit. I used Google News RSS feeds for the backend, to fetch the relevant news based on locations and some particular categories. I used Angular for the frontend to integrate it into their website.

Objectives of the project: To add a feature for users using the company's website

Tool used: Vim, Git, Github, Angular, Typescript, HTML, CSS, Python.

Details of Papers/patents: NONE

Brief description of the working environment: Work environment is excellent. PS station mentors are friendly and helpful. They are very accommodating and understanding. They gave

us ample time and freedom to come up with our own features in our projects. Meetings were daily.

Academic courses relevant to the project: yes

Learning Outcome: Fullstack development, working on large projects, version control with Git, communication and presentation.

PS-I station: Yana Travel Pvt Ltd, Bangalore

Student

Name: PRANAV ARYA SUNKU .(2023B3A70985P)

Student Write-up:

PS-I Project Title: Admin Dashboard - Settlements and Transactions Management

Short Summary of work done: I built the website in Angular and integrated APIs for Analytics and Transactions with special workflows for Settlement process

Objectives of the project: Building a user friendly and robust dashboard for admin

Tool used: Angular, SCSS, HTML

Details of Papers/patents: NA

Brief description of the working environment: Very good work environment with friendly mentors

Academic courses relevant to the project: yes

Learning Outcome: Angular Development
