

JOYAL ARYA

BOTANIST-GEOSPATIAL ENGINEER

Details

Ahmedabad, Gujarat, India

+91-9687048026

aryajoyal@gmail.com

Links

[LinkedIn](#)

[Placement Brochure - IIRS](#)

Languages

English

Hindi

Gujarati

Hobbies

Cricket, Travelling, Gardening

Skills

Adaptability

Fast Learner

Multitasking Skills

Effective Time Management

Profile

A motivated and organized individual seeking a position in RS & GIS field. Resourceful, and committed to continually advancing my knowledge of relevant technologies. Experience in analyzing and interpreting spatial as well as field data and identifying solutions along with innovation.

Employment History

● Trainee - GIS Analyst, Scanpoint Geomatics Pvt. Ltd, Ahmedabad

August 2022 - January 2023

- Learnt the Indigenous Geospatial software of the company.
- Coordinated and learnt GIS-based modules with the Product development team for the product.

● Associate GIS Analyst, Scanpoint Geomatics Pvt. Ltd, Ahmedabad

January 2023 - August 2023 (1 year)

- Trained and presented the clients of various domains about the software and provided GIS solutions based on it.
- Assisting and coordinating with the Project Management team to manage different projects according to clients' requirements.
- Developed GIS based Machine Learning GUIs for the software as per client's requirements.

● Research Fellow, BITS Pilani- K.K Birla Goa Campus, Goa

August 2023 - Present (6 months)

Climate Change & Ecology Lab

Working on Integrated Assessment Models for the Greenhouse Gas Emissions Projections of Land-Use Sector

Education

M.Tech. in Remote Sensing & GIS, Indian Institute of Remote Sensing, Dehradun, Uttarakhand

October 2020 - August 2022

Specialized in Forest Resources and Ecosystem Analysis

M.Sc. in Botany, Maharaja Sayajirao University of Baroda, Vadodara, Gujarat

July 2018 - April 2020

Specialized in Phytochemistry

Web Skills

Languages

R, Python, Google Earth Engine (Web Tool), HTML, SQL

Softwares

ArcGIS, QGIS, IGI, MaxEnt, ERDAS Imagine, SNAP, R-Studio, Blender (Basics)

Conference Article

Potential of PlanetScope, Sentinel-2 LANDSAT-8 data for characterizing alpine plant communities using Random Forest Algorithm

APRIL 2022

[National Conference by ISRS & IIRS](#)

Certificates

Smart Professional - MIS, Aptech Education

APRIL 2017

Using GEE for Land Monitoring, NASA ARSET Programme

JUNE 2021

Microwave Data Analysis Software tool - MIDAS, Space Applications Centre (ISRO)

JULY 2021

Spatial Data Science: The New Frontier in Analytics, ESRI MOOC Course

NOVEMBER 2022

Fundamentals of Machine Learning for Earth Science, NASA ARSET Programme

MAY 2023

Building Climate Risk Assessments from Local Vulnerability and Exposure, NASA ARSET Programme

SEPTEMBER 2023

Projects

Automating Estimation of Rooftop Solar Potential

2021 (M.Tech. Group Project)

Developed a dashboard for Automating Estimation of Solar Rooftop potential. Used Google Earth Engine, ArcGIS, and Open Street Map APIs in Python Environment

Remote sensing derived spectral index-based water stress assessment in Horticultural Crop

2021 (M.Tech. Case Study)

Derived and Analyzed the NDVI - LST relation for a horticultural crop using LANDSAT-8 thermal dataset. Used Google Earth Engine, ArcGIS.

Spatial Prediction of Alpine Plant Diversity Patterns along Disturbance Gradients using Remote Sensing and Machine Learning Algorithms

2022 (M.Tech. Project Work)

Predicted the Spatial Patterns of Alpine plant diversity using High-resolution Imageries and Field Data using Machine Learning Algorithms. Used Google Earth Engine, R and Python.

References

References available upon request