



Birla Institute of Technology and Science, Pilani

Off-campus Programmes and Industry Engagement

JOB DESCRIPTION

<p>About BITS, Pilani</p>	<p>Birla Institute of Technology & Science, Pilani has been declared as an "Institution of Eminence Deemed to be University" by the Central Government of India in exercise of the power conferred under Section 3 of the UGC Act 1956 and is a renowned science and technology institute with Its headquarters located in Pilani, Rajasthan, India. In addition to Pilani, BITS Pilani has campuses in Dubai, Goa, Hyderabad and Mumbai.</p> <p>The Work Integrated Learning Programmes (WILP) Division of BITS Pilani, established in 1979, focuses on providing continuing education to working professionals across industries. With over 46 years of legacy, WILP currently offers 57+ programmes, has over 52,000 enrolled learners, and more than 1,39,000 working professionals have graduated through its programmes.</p>
<p>Industry/Service</p>	<p>Higher Education</p>
<p>Post/Job Title</p>	<p>AI/ML- Engineer</p>
<p>Job Type</p>	<p>Regular, Full time</p>
<p>Reporting to</p>	<p>Project Manager- Digital Learning</p>
<p>Will also work very closely with</p>	<p>Students, Faculty and Staff</p>
<p>No. of position</p>	<p>2</p>
<p>Job Location</p>	<p>Hyderabad</p>
<p>Principal Accountabilities & Responsibilities</p>	<ol style="list-style-type: none"> 1. AI Application Development <ul style="list-style-type: none"> • Design and develop AI-powered solutions for digital learning platforms. • Build and maintain LLM and Retrieval-Augmented Generation (RAG) based applications for knowledge retrieval and learning assistance. • Develop APIs and backend services to integrate AI models with existing platforms. 2. Model Development and Optimization <ul style="list-style-type: none"> • Implement and fine-tune machine learning and generative AI models. • Optimize model performance, response accuracy, and latency. • Conduct experimentation and evaluation to improve model quality. 3. Data and Knowledge System Management <ul style="list-style-type: none"> • Build pipelines for data ingestion, pre-processing, and transformation. • Implement embedding pipelines and integrate with vector databases. • Maintain structured knowledge bases used in AI systems. 4. Integration and Deployment <ul style="list-style-type: none"> • Integrate AI models with digital platforms. • Support deployment in cloud or on-premise environments. • Ensure scalability, reliability, and security of AI solutions. 5. Testing and Quality Assurance <ul style="list-style-type: none"> • Perform testing and validation of AI applications before deployment. • Evaluate system performance and identify areas of improvement. • Troubleshoot and resolve bugs in AI applications. 6. Collaboration and Technical Support <ul style="list-style-type: none"> • Work closely with faculty and internal teams to identify AI use cases. • Provide support during implementation and deployment of AI solutions. • Collaborate with engineering and operations teams to ensure smooth functioning of AI systems.

	<p>7. Documentation and Continuous Improvement</p> <ul style="list-style-type: none"> • Maintain documentation of AI models, workflows, and system architecture. • Stay updated with advancements in Generative AI, LLMs, and AI engineering practices. • Contribute to internal knowledge sharing and best practices.
<p>Qualification and Personal Profile</p>	<ul style="list-style-type: none"> • B.E./B.Tech or MTech in Computer Science, Artificial Intelligence, Data Science, or related fields. • 0–3 years of experience in AI/ML development, NLP, or Generative AI applications. • Experience working with Python and AI frameworks. • Familiarity with LLMs, RAG architectures, embeddings, and vector databases. • Understanding of API development and system integration is desirable. • Exposure to cloud platforms such as AWS, Azure, or GCP is preferred.
<p>Other Skill and Ability Requirements</p>	<ul style="list-style-type: none"> • Strong analytical and problem-solving abilities. • Good communication and collaboration skills. • Ability to work in cross-functional teams and dynamic environments. • Ability to learn and adapt quickly to new tools and technologies.