

PREETHAM KAMISHETTY

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SUMMARY

Versatile Software Engineer with 2+ years of experience in AI modeling, machine learning, and data engineering. Expertise in developing predictive models and managing data pipelines to support AI-driven EdTech platform. Seeking a PhD fellowship opportunity to contribute to advanced AI initiatives that address real-world challenges.

EDUCATION

Asian Institute of Technology

Master of Engineering in Computer Science
Area of Specialization in Software Engineering.

January 2021 – December 2022

Pathum Thani, Thailand

JNTUH College of Engineering Hyderabad

Bachelor of Technology in Computer Science
Professional Electives: Machine Learning, Artificial Intelligence and Cyber Security.

August 2017 – December 2020

Hyderabad, India

TECHNICAL SKILLS

Programming: Python, Java, JavaScript

Frameworks: Django, Flask, TensorFlow, Node, Ruby on Rails (From Project)

Microservices: RESTful APIs, Docker

Cloud Services: AWS, GCP

Databases: MySQL, MongoDB, SPARQL (Ontology based querying, RDF), Knowledge Graphs

Other Technical Skills & Tools: Tableau, Pandas, NumPy, Git, Bootstrap, Jira, Figma, Selenium, JMeter, Linux

PROFESSIONAL EXPERIENCE

Data Scientist

CampusRoot Edu-Tech

February 2023 – Current

Hyderabad, India

- Proficient in designing serverless functions to gather and transform large datasets, managing a pipeline from 20+ sources. Cleansed and integrated data for 90,000+ courses and 2,500+ universities, automating ETL processes to enhance data quality and reliability.
- Designed and fine-tuned various predictive models using RNN, KNN, and LSTM algorithms to forecast student admissions into preferred courses across universities in 17+ countries with an accuracy of 86%.
- Extensive experience using AWS services to architect scalable, high-availability data solutions. Deployed AI models handling 100,000 predictions per day, delivering personalized recommendations to students while ensuring optimal performance and security compliance.
- Demonstrated expertise in collaborating with interdisciplinary teams to analyze business needs and develop scalable data solutions. This has resulted in optimized backend APIs that enhance functionality, improve counselor-student interactions, and reduce counselors' workload by 50%.

SELECTED PROJECTS

Avakado.ai

November 2024 – Ongoing

- Built and optimized backend for Avakado.ai, a multi-tenant AI agent platform with real-time chat and voice interfaces and cross-channel integrations, using microservices and event-driven architecture.
- Implemented robust data ingestion pipelines to parse and embed heterogeneous content sources like videos, documents, and urls into vector stores, enabling dynamic LLM orchestration with various models for use cases including sales enablement, lead capturing, and customer interaction automation.

PUBLICATIONS

- **Event Management for Social Service Website Using Ruby on Rails: BTO Event View Application Developed Implementing Collaborative Technique.** *December 2021*
- **Developing Programming Language with Compilers using JFlex in NetBean: Expanding and Testing Simple Operators by Implementing a Calculator.** *August 2022*