Last updated in April 2025

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Objective

Enthusiastic and detail-oriented Software Engineer Intern with a strong foundation in Computer Science and a passion for developing AI-driven systems. Seeking to leverage skills in data handling, algorithm design, and collaborative development to contribute to innovative projects.

Education

Vignan Institute of Technology and Sciences, B.Tech in Computer Science and Engineering — 2022 – 2026

Projects

SMART MARK

- The project aims to automate the attendance process using face recognition technology.
- Technologies Used: Python, OpenCV, Flask, Scikit-learn, Pandas, MongoDB

AI-Driven Bus Transportation System

- Developed an AI-powered routing system optimizing bus paths based on student density.
- Implemented graph-based shortest path algorithms and real-time updates, reducing route calculation time by 30%.
- Technologies Used: Python (FastAPI), AI/ML, Graph Theory, PostgreSQL

BankSphere – AI Integrated Banking System

- Developed a secure Java-based banking system with features like transactions, passbook, AI fraud detection alerts, and user dashboard.
- Integrated Spring Boot, MySQL, JWT authentication, and dynamic dashboards for admin and user management.
- Technologies Used: Java, Spring Boot, MySQL, Thymeleaf, JWT

Skills

Programming Languages: C, Java, Python

Java Development: Spring Boot, REST APIs, JWT Auth, MVC Architecture, MySQL

AI/ML Frameworks: TensorFlow, PyTorch, Scikit-learn

Databases: SQL, NoSQL

Data Handling Practices: Data collection, Data cleaning, Data preprocessing

Certifications

- NPTEL Certification on Data Structures with Java
- CISCO Python Programming Certification
- Apna College Certification on Full Stack Web Development
- CodeChef: Arrays, Python, DSA

Publications

Hybrid AI Agent Based Student Academic Performance Advisor Model — February 2025

Under the guidance of Dr. B. V. RamaKrishna
The team members are: U. Pardha Sai, P. Manohar, B. Tarun, M. Hemanth Reddy
DOI:18.0002.IJAEMA.2025.V17I02.200001.01568688