

Sharath Schandra Kolli

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Summary

Final-year Computer Science student at VIT-AP with experience in backend development, REST APIs, and real-time systems. Proficient in Python, Java, and SQL with strong foundations in data structures, algorithms, and system design. Passionate about building scalable software systems and modern AI-driven applications.

Education

Vellore Institute of Technology

B.Tech in Computer Science – CGPA: 8.66

Expected May 2026

Amaravathi, Andhra Pradesh

Sri Chaitanya

Intermediate: 91.9% — Class X: 96%

2020 – 2022

Andhra Pradesh

Experience

Prayana – EV Bike Rental Platform | Software Development Engineer Intern

Jan 2024 – Aug 2024

- Developed backend services and RESTful APIs using Python for ride-management workflows.
- Integrated GPS hardware modules with backend systems enabling real-time vehicle tracking.
- Optimized SQLite database schemas improving query performance for high-frequency logs by 30%.

VULCAN Autonomous EV – VIT-AP University | Technical Lead Intern

Sept 2024 – Aug 2025

- Developed computer vision algorithms for road-offset detection achieving 95% precision at 30 FPS.
- Built real-time perception modules using multi-sensor data from LiDAR, radar, and cameras.
- Led development of the autonomous EV prototype securing 5+ lakhs in government funding.

Projects

POTECH – Brain Computer Interface System | Python, Signal Processing, ML, ESP8266

Jan 2025 – Present

- Developed a real-time EEG acquisition system using ESP8266 and neural electrodes for brain signal monitoring.
- Built a signal-processing pipeline including filtering, feature extraction, and normalization for EEG data.
- Implemented ML models translating neural signals into home automation commands achieving 85% classification accuracy.

Smart Document Insights (RAG System) | Python, Flask, ChromaDB, LLMs

2026

- Developed a Retrieval-Augmented Generation (RAG) system for natural language question answering over documents.
- Built a Flask backend integrating sentence-transformer embeddings with a ChromaDB vector database.
- Implemented document ingestion, chunking, and semantic search pipelines for PDF, DOCX, and TXT files.

Technical Skills

Languages: Python, Java, SQL

Backend & APIs: Flask, REST APIs, Authentication, Docker, Microservices

AI / ML: Retrieval-Augmented Generation (RAG), PyTorch, TensorFlow, OpenCV, Scikit-learn

Data & Databases: NumPy, Pandas, SQLite, Relational Database Design, MongoDB

Tools & Concepts: Git, Linux, AWS Fundamentals, Data Structures & Algorithms, OOP, Encryption, System design

Coding Profiles

- Solved 300+ DSA problems across coding platforms
- LeetCode: leetcode.com/shas2211 HackerRank: hackerrank.com/sharathaura2211

Certifications

- Machine Learning Specialization – Stanford Online & DeepLearning.AI
- Oracle Cloud Infrastructure 2025 Certified Generative AI Professional
- Microsoft Certified: Azure AI Fundamentals
- AWS Academy Cloud Foundations – Amazon Web Services