

DADIREDDY VASAVEE

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[LinkedIn](#) | [GitHub](#) | [LeetCode](#)

SUMMARY

Final-year B.Tech (CSE – AI & ML) student with a 9.53/10 CGPA and 300+ LeetCode problems solved. Builds software across the full lifecycle (design, implementation, testing, debugging, deployment), from an LLM + RAG system at ZF to a containerized fraud-detection platform (89.5% F1) and a real-time computer-vision pipeline.

EDUCATION

VNR Vignana Jyothi Institute of Engineering & Technology, Hyderabad

2023 – 2027

B.Tech, Computer Science & Engineering (AI & ML) | CGPA: 9.53 / 10

EXPERIENCE

AI QA Engineer Intern — ZF India Private Limited (R&D and Product Engineering)

Jun 2026 – Sep 2026

- **Independently owned and engineered** an LLM + RAG test-script generation system for marine propulsion control software, building the full ingestion-to-generation pipeline (embeddings, FAISS retrieval, reranking, local LLMs) rather than consuming a hosted API.
- **Designed a modular architecture** with a Pattern Engine and a Validation Agent that checks AI-generated output for quality, and tested iteratively, diagnosing and fixing issues to improve reliability.
- **Developed AI models** to review existing automated test scripts for quality, coverage and reliability, grounded in an ingested marine propulsion test-case knowledge base.
- **Integrated AI-driven testing proofs-of-concept into Azure DevOps CI/CD pipelines** within an Agile team, automating manual QA workflows.
- **Packaged the system as a deployable application** with a fully ingested domain knowledge base as the final artifact.

PROJECTS

Fake Complaint Detection & Geo-Analytics Platform

2026

Python · FastAPI · PostgreSQL · React · Docker · NLP · HDBSCAN

- Built containerized full-stack microservices (FastAPI, PostgreSQL, React) with REST APIs and async processing, gathering requirements and collaborating across the stack to ship end to end.
- Designed a five-signal anomaly-detection algorithm (user velocity, cosine similarity, spatial clustering) achieving an **89.5% F1-score**.
- Built role-based React dashboards giving stakeholders actionable alerts and insights.

IntelliQuery — Context-Aware Retrieval Pipeline with RAG

2025

Python · LangChain · LangGraph · FAISS · FastAPI · Docker · GCP Cloud Run

- Designed a document-ingestion pipeline (chunking, embeddings, FAISS indexing) and a LangGraph query-routing state machine that retrieves and validates context across multi-turn sessions.
- Deployed as a Dockerized FastAPI service on GCP Cloud Run with structured logging and latency monitoring.
- Used logs and metrics to diagnose issues and tune reliability and performance.

Intellivision — Real-Time Object Localisation & Depth Understanding

2025

Python · YOLO · MiDaS · OpenCV · NumPy · Computer Vision

- Built a real-time pipeline combining YOLO object detection and MiDaS depth estimation for images, video and live camera feeds.
- Tuned accuracy-latency via frame sampling and selective processing, achieving **96.2% mAP at 12-18 FPS**.

TECHNICAL SKILLS

Languages: Python, Java, C++, JavaScript/TypeScript, SQL

Software Engineering: Data Structures & Algorithms, OOP, DBMS, Operating Systems, Computer Networks, REST APIs

Frontend & Backend: React.js, FastAPI, Node.js, async processing, PostgreSQL, MySQL

Testing, Debugging & DevOps: Pytest, Playwright, Selenium, logging & monitoring, Docker, Git, Azure DevOps CI/CD

Applied AI: LLM/RAG pipelines, LangChain, LangGraph, FAISS, OpenCV, YOLO

ACHIEVEMENTS & LEADERSHIP

- 2nd place, Krithoathon National-Level Hackathon (100+ teams); 1st prize, Katalyst Inter-College Tech Fest.
- Solved 300+ LeetCode problems; ranked among the Top 100 Coders at college.
- Recipient of Cadence, HDFC and Katalyst scholarships for academic excellence.
- Design Head, Katalyst / CSI Student Chapter.