

Paridhi Pawaiya

 Vellore, India  pawaiyaparidhi@gmail.com  9425878501
 linkedin.com/in/paridhi-pawaiya  github.com/PARIDHIPAWAIYA

Education

Vellore Institute of Technology (VIT), Vellore

July 2023 – August 2027

B.Tech in Computer Science Engineering

- CGPA: 8.99 / 10.0
- Relevant Coursework: Data Structures & Algorithms, DBMS, Operating Systems, Computer Networks, Compiler Design, Artificial Intelligence, Machine Learning, Cloud Architecture

Skills

Programming: Java, Python, C/C++, JavaScript, SQL, HTML, CSS, React

AI & ML: LangChain, RAG, LangGraph, TensorFlow, Keras, Scikit-learn, OpenCV, ComputerVision

Backend & Databases: FastAPI, Flask, REST APIs, PostgreSQL, SQLAlchemy

Platforms & Tools: Git, Ubuntu, AWS (S3, Rekognition, SNS), VS Code, Jupyter, Colab, Copilot

Work Experience

AI/ML Intern — Hindustan Petroleum Corporation Limited (HPCL)

May 2025 – July 2025

- Built a **multi-agent conversational AI platform** using Flask, FastAPI, LangChain, and LangGraph.
- Integrated LLMs (Groq API, Google GenAI) with **RAG-based retrieval pipelines**.
- Implemented FAISS, Chroma, and Qdrant for efficient contextual search.
- Added voice interaction (STT/TTS) and monitoring via LangSmith.

Student Placement Coordinator — VIT

March 2025 – Present

- Coordinated campus placement workflows and served as liaison between recruiters and students.

AI/ML Lead — RoboVITics

March 2025 – Present

- Leading AI/ML initiatives for a technical team of **200+ members**.
- Conducted workshops, mentored projects, and managed Robowars logistics.

Projects

Agentic AI Guardrail System — LangChain, RAG, FastAPI, PostgreSQL

[GitHub](#)

- Designed an **agentic LLM guardrail pipeline** for prompt injection and policy enforcement.
- Integrated semantic validation using RAG and multi-agent monitoring.
- Integrated FastAPI backend with PostgreSQL for policy management and audit logging
- Achieved **92% accuracy** on **4,000+ adversarial prompts**.

Network Guard: AI-Based DDoS Detection — Python, Scapy, Scikit-learn

[GitHub](#)

- Built a real-time **network intrusion detection system**.
- Extracted flow-level features and trained **Isolation Forest models**.
- Implemented automated mitigation using iptables.

Multi-Agent AI Chat Platform — Flask, FastAPI, LangGraph

[GitHub](#)

- Developed a modular **multi-agent AI chat system** with persistent context handling.
- Built a scalable architecture with streaming LLM responses and extensible structured agent workflows.
- Designed and implemented a modular multi-agent architecture with selectable AI roles including **General Assistant, Document Agent, Research Agent, Analytics Agent, and Coding Agent**.

Certifications

- Machine Learning A-Z
- Data Analytics Masters
- NPTEL Certifications

Achievements

- **3rd Place** — GeeksForGeeks VITALITY National AI/ML–Cybersecurity Hackathon 2025
- **Placement Coordinator** (2025–2026)
- Solved **100+** **DSA problems** on LeetCode