

VED M PAWAR

+91-7829438056 | vedpawar1410@gmail.com | [VedLinkedIn](#) | [VedPawar1410](#)

SOFTWARE ENGINEER — FULL STACK — JAVA — CLOUD — LLMS — RAG

Education

Vellore Institute of Technology, Vellore
B.Tech in Computer Science and Engineering

September 2021 - July 2025
CGPA: 8.69/10.0

Bangalore International Academy, Bangalore
Class XII (CBSE)

2021
Percentage: 90

Technical Skills

- **Languages:** C++, Java, Python, C#, JavaScript (ES6+), TypeScript, SQL, Bash/Shell
- **Frameworks & Libraries:** Spring Boot, Flask, React, Node.js, TensorFlow, PyTorch, JUnit, Pandas, NumPy
- **Engineering Practices:** Telemetry & Logging, Secure Coding, Code Reviews, CI/CD, TDD, Agile/Scrum
- **System Design:** Microservices, Distributed Systems, REST vs gRPC, Load Balancing, Caching, CAP Theorem
- **Cloud & Tools:** GCP, AWS, Azure, Docker, Kubernetes, Git, GitHub Actions, JIRA, Postman, Linux/Unix

Experience

General Motors Internship | [🔗](#)

August 2023 – November 2023

Machine Learning Intern

Bangalore

- Developed Python automation scripts to proactively flag quality issues, collaborating with global stakeholders to refine product features.
- Documented technical specifications and user guides, facilitating the onboarding of new team members and ensuring long-term maintainability.

Projects

AI-Powered Adaptive Personality Engine and Memory System | [🔗](#) | [📄](#)

December '2025

- Designed and deployed a modular AI agent capability of long-term memory extraction from unstructured chat logs using Gemini 2.0 Flash and Pydantic for structured output validation.
- Engineered a "Personality Transformation" pipeline that dynamically alters the AI's response tone based on extracted user context, improving user engagement.
- Containerized the application using Docker and automated the CI/CD deployment pipeline to Render, ensuring scalable and reliable cloud hosting.

Sentiment Analysis of Online Reviews | [🔗](#) | [📄](#)

July'2024

- Architected a Full Stack web application using Python (Flask) and Java principles, adhering to MVC design patterns.
- Implemented a secure RESTful API with rate limiting and input validation to prevent common security vulnerabilities.

AI based Autonomous Surveillance System using Deep Learning | [🔗](#)

January'2025

- Developed an AI-powered surveillance system utilizing Computer Vision (YOLOv8, Faster R-CNN) for real-time anomaly detection.
- Optimized inference latency by 30% through model quantization and multi-threading, enabling real-time processing on edge devices.
- Achieved 84.45% AUC on the UCF-Crime dataset by iteratively testing architectural design options and validating hypotheses.

Anomaly Detection in Wearable Sensor Data using Machine Learning | [🔗](#)

August'2024

- Designed a robust anomaly detection pipeline for the PAMAP2 dataset, applying least-access principles to sensitive health data.
- Optimized data processing algorithms to $O(n \log n)$ complexity, ensuring the solution met performance and scalability requirements for high-frequency sensor streams.

Certifications

Google Cloud Digital Leader
AWS Cloud Practitioner Essentials
Neural Networks and Deep Learning

Issued by Google

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Issued by AWS

[View Certification](#)

Issued by Coursera

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