AMBATI JAGADISWAR REDDY

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GitHub | LinkedIn | LeetCode | Portfolio

SUMMARY

B.Tech Computer Science student (CGPA 9.50) who builds full-stack and AI applications. Hands-on with Python, FastAPI, Flask and Next.js, SQL and NoSQL databases, and LLM systems (RAG, embeddings, local LLM inference). Built three end-to-end projects across document AI, healthcare and finance, and have competed in AI and software hackathons. Seeking a software engineering or AI/ML internship.

EDUCATION

MLR Institute of Technology (MLRIT), Hyderabad — Expected May 2029
B.Tech in Computer Science & Engineering | **CGPA: 9.50**
Coursework: Data Structures & Algorithms, Object-Oriented Programming, DBMS, Software Engineering

TECHNICAL SKILLS

Languages: Python, Java, JavaScript, TypeScript, SQL, C, Kotlin
Backend & APIs: FastAPI, Flask, REST APIs
Frontend: React.js, Next.js, Tailwind CSS
Databases: MySQL, MongoDB, Firebase Firestore, Supabase
AI / ML: LLMs, RAG, LangChain, Embeddings, Semantic Search, ChromaDB, Ollama, Prompt Engineering, OCR, Google AI Studio
Tools & Core CS: Git, GitHub, Docker, VS Code | Data Structures & Algorithms, OOP, DBMS, SDLC

PROJECTS

FormFinance: AI Finance Operations & Settlement Reconciliation — Code | Write-up
FastAPI, Python, OCR, Next.js | Razorpay Buildathon

- Developing an AI-powered finance controller that automates settlement reconciliation and financial verification for businesses.
- Built OCR and document-processing pipelines to extract payments, refunds, fees, taxes and adjustments from settlement data.
- Designing deterministic verification, evidence matching and AI-agent investigation workflows that produce auditable **Approve / Flag / Escalate** decisions.

RAG-Based AI Document Assistant (RAGSphere) — Code | Write-up
Python, Flask, LangChain, Ollama, ChromaDB

- Built an end-to-end Retrieval-Augmented Generation pipeline that answers questions grounded in user-provided documents.
- Implemented document loading, text splitting, embedding generation and semantic similarity retrieval with LangChain and ChromaDB.
- Ran LLM inference locally with Ollama and exposed retrieval, generation and response handling through a Flask API.

ESIC MedStock: Smart Pharmacy & Queue Management System — Web code | Android code | Write-up
Next.js, Firebase Firestore, Tailwind CSS

- Built a healthcare web and Android application for real-time medicine availability tracking and pharmacy queue management.
- Developed separate patient and pharmacist workflows covering authentication, prescription processing and inventory management.
- Designed the Firestore collections and implemented QR-based prescription verification with multilingual support.

HACKATHON PROJECTS

- **Genesis** | OpenAI Build Week | Code
- **DoodleMind** | Hacktoberfest, React Hyderabad | Code
- **PakkaKhata** | iQOO Hackathon | Code
- **PayGuard AI** | Aczen Hiring Hackathon | Code
- **Qwen What If** | Miro x Qwen Hackathon | Code
- **BIS Smart Assist** | SIH 2026 | Code

ACHIEVEMENTS

- **Runner-up**, App Development Workshop Competition, MLRIT.
- Solved **140+ problems** on LeetCode covering core data structures and algorithms.
- Built and submitted projects at 7 hackathons and buildathons (SIH 2026, OpenAI Build Week, Razorpay, iQOO, Aczen, Miro x Qwen, Hacktoberfest).