

Om Chauhan

omchauhan0918@gmail.com | 9389852547 | linkedin.com/in/om-chauhan | github.com/OmChauhan77

Education

IIITDM Kurnool, BTech in Artificial Intelligence and Data Science

August 2022 – May 2026

- GPA: 8.4/10

Experience

Flutter Developer, xForms Business Solutions, Bangalore

April 2025 – Aug 2025

- Engineered a full-stack **Medical Representative Management System** using **Flutter** and a **Java Spring Boot** backend, improving workflow efficiency for over **50+ users** and achieving a **95% user satisfaction rate**.
- Developed and deployed a suite of **RESTful APIs** to manage visit tracking, scheduling, and doctor databases, introducing a novel **voice recording feature** for field reports that reduced manual data entry time by **30%**.
- Implemented a robust **role-based authentication** system using **JWT**, securing sensitive medical data and providing granular access control for representatives and managers.
- Architected a responsive and scalable UI with **Material Design**, leveraging **Flutter's cross-platform capabilities** to deliver a unified application for both **Android and iOS** from a single codebase, cutting development time by **40%**.

Projects

HackRx 6.0 (Bajaj Finserv Hackathon) | Python, FastAPI, OpenAI GPT-4o-mini, FAISS, LangChain

github

- Built an end-to-end **document Q&A pipeline** using RAG + FastAPI, supporting **multi-format inputs (PDF/DOCX/EML)** with an average query-ready turnaround time of **~14.5s**.
- Optimized performance with **parallel processing (ThreadPoolExecutor)** and **LRU caching**, achieving **3x faster throughput** and reducing processing overhead by **60%**.
- Integrated **OpenAI GPT-4o-mini** with **FAISS** vector database for semantic retrieval and context-aware answering, including **200K token batch optimization** for large-scale workloads.
- Developed **structure-aware chunking and reranking algorithms**, improving context preservation and answer relevance by **25%** through optimized prompt engineering and LLM-based scoring.

Blogging platform using Spring boot | Spring Security, MongoDB, Eureka, Kafka

github

- Architected a **scalable microservices platform** using Spring Boot, handling **500+ concurrent users** with an average API response time under **150ms**.
- Decomposed the application into **3+ independent microservices** (user, post, comments), which improved fault isolation and accelerated feature delivery by **40%** through parallel development.
- Implemented a robust, stateless **JWT-based authentication** system with **Spring Security**, securing all API endpoints and enabling seamless user session management.
- Integrated **Apache Kafka** to manage **asynchronous email notifications**, reducing user registration latency by over **80%** and enhancing system resilience with **Eureka** for dynamic service discovery.

Technologies

Languages: C++, C, Java, Dart, Python, R, SQL, JavaScript

Frameworks and libraries : Spring boot, Hibernate, firebase, Flutter, Scikit-Learn, MySQL, MongoDB

Miscellaneous

- Google data analytics certificate(JULY 25)
- Placement Coordinator since MAY 25
- Campus ambassador for Ecell IIT Bombay