Aryan Jumde

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Education

Shri. Ramdeobaba College of Engineering and Management, **Nagpur**

Bachelor of Technology in Computer Science and Engineering   2023 – 2027

• CGPA: 8.96/10
• **Coursework:** Data Structures & Algorithms, OOP's, DBMS, Operating System, Computer Networks

Projects

Medical Inventory Management System (Multi-Tenant SaaS)   [**Link**]

Tech Stack: Node.js, Express.js, Oracle 11g, SQL, EJS, Bootstrap 5, RESTful APIs
- Engineered a full-stack **SaaS (Software as a Service)** platform to provide small-scale pharmacies with a secure, cloud-based   solution for independent inventory and supplier management.
- Architected a **multi-tenant database structure** using **Oracle 11g**, implementing 100% data isolation through unique primary keys (**UUIDs**) and custom **Oracle Database Triggers** to automate stock-level synchronization and ensure high data integrity.
- Developed a secure backend using **Node.js** and **Express.js**, incorporating **BCrypt** for encrypted password hashing and session-based middleware to manage role-based access control and protect sensitive patient-pharmacy records.
- Built a dynamic frontend using **EJS (Embedded JavaScript)** and **Bootstrap 5**, featuring a real-time dashboard that utilizes **RESTful APIs** to fetch and display urgent inventory alerts.
- Delivered a scalable system that automated the tracking of over thousands of stock items, reducing manual monitoring time by   providing proactive alerts for **Low Stock** and **Near Expiry** batches.

GyaanBot – AI-Powered Mobile Chat Assistant   [**Link**]

Tech Stack: Flutter, Dart, BLoC Pattern, Gemini AI API, RESTful APIs, Git
- Developed a responsive mobile AI chat application to provide users with real-time access to Large Language Models (LLMs) through a streamlined, user-friendly interface.
- Architected the application using the **BLoC (Business Logic Component) pattern** to decouple UI from business logic, ensuring a highly predictable state and scalable codebase.
- Integrated **Gemini AI via REST APIs**, implementing asynchronous data handling and repository patterns to manage seamless communication between the app and the AI backend.
- Engineered a modern chat UI featuring **auto-scroll functionality** and custom themes, utilizing the **flutter_bloc** library to handle complex message states and real-time UI updates.
- Successfully delivered a production-ready Android application with a clean architecture (**bloc, model, repos, pages**), enabling efficient future scaling and feature extensions.

Technical Skills

- **Languages:** Java, C, JavaScript, Python, SQL
- **Frameworks & Technologies:** Flutter, Node.js, Express.js, Firebase, REST APIs
- **Databases:** Oracle 11g, Firestore
- **Tools:** Git, GitHub, Android Studio, VS Code, Postman

Certifications

- **Introduction to Microsoft Azure Cloud Services** | Microsoft   [**Link**]
- **Developing AI Applications with Python and Flask** | IBM   [**Link**]
- **Foundations of Machine Learning**   [**Link**]

Achievements

- Solved **200+ DSA** problems on multiple coding platforms