

# PRATHAM RAJBHAR

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## PROFESSIONAL SUMMARY

Motivated Computer Engineering undergraduate (B.Tech, 6th Semester, Ganpat University) with a 9.4 CGPA in Diploma and real-world experience across 6 hackathons where I built and shipped working products under tight deadlines. I am comfortable across the full stack, from building interfaces to designing backend systems and integrating AI features. I take ownership of what I build, care about how it performs, and can start adding value from day one.

## PROJECTS

### KeplerLab AI Notebook

- Built a full-stack AI platform with 25+ modular FastAPI routes covering JWT + OAuth authentication, AI chat agents, flashcard/quiz generation, mind maps, podcast creation with live text-to-speech, and sandboxed code execution.
- Implemented production-ready backend infrastructure including LangChain AI pipelines, real-time WebSocket communication, rate limiting, circuit breakers, and performance monitoring.
- Developed the frontend in React 19 + Next.js with Zustand state management, featuring an advanced chat interface, mind map canvas, podcast studio, and skill workflow editor.

### Smart Tourist Safety Monitoring System

- Built a Flutter app with background GPS tracking, live AI safety score (0-100), and an SOS panic button, powered by a FastAPI backend using Isolation Forest + Temporal Analysis + Geofencing models that retrain every 60 seconds on live Supabase data.
- Delivered a React.js police dashboard with real-time WebSocket alerts, polygon zone management, broadcast notifications, and blockchain-backed E-FIR PDF reports.

### Balanza – Personal Finance Tracker

- Built a cross-platform mobile app using Flutter for real-time income and expense tracking with dynamic balance updates and interactive spending charts.
- Secured all financial data locally using SQLite encryption, ensuring user privacy with consistent read/write performance on both Android and iOS.

## TECHNICAL SKILLS

- Languages & Frontend:** Python, JavaScript, SQL, React.js, Next.js, Tailwind CSS, Dart
- Mobile & Backend:** Flutter, React Native, FastAPI, Node.js, REST APIs, WebSockets, Docker, CI/CD
- AI & LLMs:** LangChain, Prompt Engineering, Generative AI, NLP, TensorFlow, PyTorch, Vector Stores
- Databases & Tools:** PostgreSQL, MongoDB, SQLite, Redis, Git, GitHub Actions, Postman, Linux

## EDUCATION

### Bachelor of Technology in Computer Engineering

Aug 2024 - Present

Ganpat University | 6th Semester

Focus Areas: LLMs & AI Agents · Full-Stack Development · Real-Time Systems · Generative AI

### Diploma of Computer Engineering

Sep 2021 - July 2024

Ganpat University

CGPA: 9.4 | Distinguished Member