

Lakshita Gupta

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Education

Dr. B.R. Ambedkar National Institute of Technology, Jalandhar <i>B.Tech in Information Technology</i>	2023 – Present <i>CGPA: 7.42</i>
SS International School, Barnala <i>CBSE Senior Secondary</i>	2021 – 2023 <i>92.4%</i>

Technical Skills

Languages	C++, Java , JavaScript, Python, Dart
Core CS	DSA, OOP, DBMS, Operating Systems, Computer Networks
Backend & APIs	Node.js, Express.js, REST API Design, WebSockets, JWT Authentication
Frontend	React.js, Flutter
Databases	MongoDB, Firebase
Tools	Git, GitHub, Postman, Figma, Unity, Gemini API

Projects

CarePulse – AI-powered ICU Patient Monitoring Platform

React.js • TypeScript • Node.js • Express.js • MongoDB • Python • Scikit-learn

 GitHub

- Developed a full-stack ICU patient monitoring platform using **React.js**, **Node.js**, **Express.js**, and **MongoDB** for patient management, real-time vital monitoring, and automated alerts.
- Integrated a **Scikit-learn** model trained on **200,000+** patient vital-sign records to predict patient risk and generate automated alerts for abnormal health conditions.
- Implemented secure **JWT**-based authentication, role-based access control, and **RESTful APIs** for secure communication across frontend, backend, and machine learning services.

ZindagiGo – AI-powered Senior Citizen Assistance App

Flutter • Firebase • Node.js • Express.js • MongoDB • Google Gemini API

 GitHub |  Video Demo

- Developed emergency assistance features including accelerometer-based fall detection, voice-activated SOS, and real-time GPS location sharing to improve emergency response.
- Built an OCR-powered prescription scanner to digitize and categorize medical records, reducing manual effort for senior citizens and caregivers.
- Integrated a multilingual healthcare chatbot using the **Google Gemini API** with speech-to-text support to provide accessible health assistance.
- Implemented **Firebase Authentication** and collaborated through Git/GitHub workflows on **REST API** integration, testing, debugging, and end-to-end validation with the backend team.

Achievements

- Google Solution Challenge 2025 – Best Societal Impact Award Winner**
 - Selected among **64,000+** registrations and **3,700+** global project submissions.
 - Presented the project at the Grand Finale at Google Office, Gurugram.
 - Awarded **INR 75,000 cash prize** along with Google merchandise.
- Flipkart GRID 8.0 Semi-Finalist** – Advanced to the semi-final round of Flipkart’s flagship Software Development Challenge.
- Invited to **Google I/O Connect 2025**.