

# ARPIT GUPTA

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## EDUCATION

- Vellore Institute of Technology** (2022 - 2026)  
B. Tech Computer Science & Engineering | CGPA: 8.7
- Kendriya Vidyalaya No 2 Kanpur** (June, 2022)  
Higher Secondary | CGPA: 9.2

## SKILLS

- Languages:** Dart, Java, Python, SQL, TypeScript.
- Tools:** Git, GitHub, Postman, Figma, MCP, Cloud (AWS EC2, Lambda, S3), Oracle OCI.
- Frameworks/Tech:** Flutter, Android Studio, Supabase, Docker, Redis, API Design.
- Core Competencies:** Data Structures & Algorithms, Software Development, Operating Systems, CN, DBMS, System Design Basics, CI/CD, REST API Architecture, LLD/HLD.

## WORK EXPERIENCE

### Full Stack App Developer - IISPPR (June, 2025 – Aug, 2025)

- Led a multi-OS responsive app enhancing UX, optimizing content delivery, reducing interaction time by **30%**, and increasing engagement by **45%** through scalable backend architecture with user-friendly tools.

### DoShare.Me App Developer Pune, India (Dec, 2024 – Mar, 2025)

- Developed a cross-platform app with an interactive 3D Mapbox interface, boosting UI responsiveness, cutting load times, and enabling 75% faster data access within a 5-meter range.

## PROJECTS

### Suno – Samjho (Aug, 2025 - Ongoing)

- A culturally adaptive, AI-powered mental health Chatbot delivering real-time emotional support through voice and text interactions in 22+ Indian languages, built with a robust, privacy-first architecture.
- Developed a cross-platform application (Android/iOS) using FastAPI + PostgreSQL + Redis caching to deliver these real-time insights and personalized recommendations, enhancing accessibility for non-English speakers across India.
- Designed REST APIs for real-time emotional inference and reduced response latency by 35% through query optimization. Implemented concurrency-safe pipelines for TensorFlow models using Python multiprocessing.
- Tech Stack: Flutter, PostgreSQL, Redis, TensorFlow, FastAPI, Supabase, Python Libraries, Git, TypeScript, Docker.

### SOS Emergency Response System (April, 2025)

- Engineered a real-time SOS application to accelerate emergency response, connecting users with responders in under 3 minutes. The system features live tracking and secure, cutting dispatch delays by up to 60%.
- Built a Flutter app with Supabase(PostgreSQL), Mapbox APIs and event-driven Pub/Sub communication layer enabling real-time SOS alerts. Reduced load time and improved data delivery speed by 75% through backend query optimization.
- Integrated Google Maps API & GeoHashing for optimized responder routing, achieving a 40% faster task completion rate and Implemented AES encryption and engineered microservices for alert, map, and responder allocation flows.
- Tech Stack: Flutter, Supabase, Google Maps API, GeoHashing, AES Encryption, Git, Postman, FastAPI.

## CO-CURRICULAR

### ACHIEVEMENTS

- Secured an official Government of India copyright for "Cool Veil," a high-tech wearable cooling jacket designed with thermoelectric modules and a rechargeable power source for all-day comfort.
- Solved 1000+ DSA problems across LeetCode and GFG (Java/Python).
- 2nd Runner-up at SGU Hackathon themed on Mental Health AI for building a culturally-aware screening platform.
- Successfully completed the Hacktoberfest 2025 challenge by contributing 6+ merged pull requests to diverse open-source repositories and authoring a new performance-optimized Flutter library.

### ACTIVITIES

- DSW Office Member, contributed to the organization, management of events, workshops, and extra-curricular activities.
- Led strategic planning sessions within the **Partnership Team at AI Club**; established relationships resulting in three new sponsorships that provided valuable resources to enhance club operations.

### ADDITIONAL

- Hobbies:** Tech Trendy, Gaming, Cooking, Listening Music, Photography