ARPIT GUPTA

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EDUCATION

- **Vellore Institute of Technology** *(August, 2022)*
  B. Tech Computer Science & Engineering | CGPA: 8.7

SKILLS

- **Languages:** TypeScript, Java, Python, SQL, Dart.
- **Tools:** Git/GitHub, Postman, FastAPI, Figma, MCP, Oracle OCI, Docker, AWS (EC2, S3), CI/CD.
- **Frameworks/Technologies:** REST APIs, Authentication, Authorization, Caching, Pub/Sub, WebSockets, Flutter, REST API, MySQL, SupaBase, Redis, LLD/HLD.

EXPERIENCE

IISPPR (Full Stack App Developer) **(***June, 25 – August 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 **Pune, India**
Software Developer Intern **(***Dec, 24 – March, 2025***)**
- Optimized backend–client data flow, API routing, and real-time logic, improving system performance by **75%** while ensuring reliable backend services and seamless mobile client integration.

PROJECTS

Suno - Samjho (Back-End, Android App, AI) *(Aug, 2025 - Ongoing)*
- Engineered a scalable backend system for an AI-powered mental health platform supporting real-time voice and text interactions across 22+ Indian languages with a privacy-first architecture.
- Designed and implemented FastAPI-based REST APIs with PostgreSQL and Redis caching to support multilingual AI models, enabling high-throughput, real-time emotional insights and personalized recommendations.
- Developed a cross-platform (Android/iOS) application with Flutter to deliver these real-time insights and personalized recommendations, enhancing accessibility for non-English speakers across India.
- Flutter, Android/iOS, TensorFlow, FastAPI, Supabase, Python Libraries (Hugging Face Transformers), Git, TypeScript.

YT Titles Generator (Back-End, Typescript, Motia, AI) *(Nov, 2025 – Dec, 2025)*
- Built an **event-driven backend system** using Motia to automate YouTube title optimization, handling API triggers, data ingestion, AI inference, and email delivery.
- Integrated YouTube Data API and Gemini AI in an event-driven TypeScript backend to generate SEO-improved, high-CTR titles with structured outputs, ensuring scalable and reliable processing.
- **Tech Stack:** TypeScript, Motia, Gemini AI, REST APIs, State Management, Async Processing, Email Services.

SOS Emergency Response System (Scalables Backend, App) *(April, 2025)*
- Authored a real-time SOS application to accelerate emergency response, connecting users with responders in under 3 minutes. The system features live tracking and secure.
- Restructured a real-time backend system using FastAPI, PostgreSQL, Redis, and GeoHashing to handle emergency routing and live location updates.
- Refined an event-driven Pub/Sub architecture to replace polling, improving response time by 75%. Revamped database queries and caching layers to support high concurrency and low latency.
- Tech Stack: FastAPI, Supabase, Redis, GeoHashing, Pub/Sub Architecture, Google Maps APIs, AES, Git, Postman.

CO-CURRICULAR ACTIVITIES

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.
- 2nd Runner-up at SGU Hackathon themed on Mental Health AI for building a culturally-aware screening platform.

ACTIVITIES

- DSW Office Member, contributed to the organization, management of events, workshop, 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