

SANSKRITI GUPTA

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EDUCATION

VIT Bhopal University, Bhopal

- Bachelor of Technology in Computer Science (Expected May 2027) | GPA: 8.54/10

Dr. Virendra Swarup Education Centre, Kanpur

- CISCE (Class XII) | Percentage: 91.5% (2023)

PROJECTS

AI-Powered Dementia Care Assistant

Aug 2025

- Engineered a voice-first Flutter application integrating Google Cloud Speech APIs and Gemini Generative AI to process natural language commands with <2 second latency.
- Architected a privacy-centric Local RAG system leveraging vector embeddings and cosine similarity to achieve 95% accuracy in retrieving context-aware object locations.
- Implemented core healthcare modules for medication scheduling and memory journaling, ensuring reliable coordination and data persistence.
- Designed an elderly-friendly UX with high-contrast interfaces and continuous voice-feedback loops to maximize accessibility for non-technical users.

Service Provider Platform

Jun 2025

- Built a hyper-local service marketplace using the PERN stack (PostgreSQL, Express.js, React, Node.js), enabling service discovery, bookings, reviews, and role-based dashboards.
- Implemented secure authentication and authorization workflows including email OTP verification, Google OAuth 2.0, crypto-based password resets, and role-based access control (RBAC).
- Developed scalable RESTful APIs for geolocation-based provider matching and optimized database schemas, reducing query execution time by 30% while ensuring security via Postman validation.

Movie Discovery & Recommendation System

Oct 2024

- Constructed a dynamic movie discovery platform indexing 10,000+ titles, featuring advanced search and implementing client-side caching to minimize redundant API calls.
- Formulated a content-based filtering algorithm that analyses metadata and watch history to generate personalized suggestion lists.
- Validated API integrations using Postman and enhanced application usability through genre-based browsing and trending dashboards, resulting in a 30% improvement in navigation speed.

LEADERSHIP & ACTIVITIES

Google Developers Club

Bhopal

Core Member

Dec 2024 – July 2025

- Organized and led a Web Development and AI/ML workshop for 50+ students.
- Developed RESTful APIs for a women's wellness platform, streamlining data flow.
- Authored a technical article titled "Agentic AI: Shaping a Future of Autonomous Intelligence" published on GDG VIT Bhopal's Medium, garnering significant engagement.

SKILLS & CERTIFICATIONS

TECHNICAL SKILLS

- Core Concepts:** Data Structures and Algorithms, OOP, DBMS, OS, Computer Networks, Data Science
- Programming Languages:** JavaScript, Java, Python, C++, SQL
- Front-End:** React, Next.js, Flutter, HTML5, CSS3, Redux
- Back-End:** Node.js, Express.js, Flask
- Databases:** PostgreSQL, MongoDB, Firebase (Firestore)
- Cloud & DevOps:** AWS (EC2, S3, Lambda), Firebase Hosting, Git, GitHub Actions (CI/CD), Docker, Vercel

CERTIFICATIONS & TRAINING

- Data Analytics and Visualization** – Accenture North America Virtual Experience Program
- Introduction to Machine Learning** – NPTEL
- Postman API Fundamentals Student Expert** – Postman