

# SANSKRITI GUPTA

Kanpur, India | +91 6306642481 | [Email](#) | [LinkedIn](#) | [Portfolio](#) | [GitHub](#)

## EDUCATION

### VIT Bhopal University, Bhopal

- Bachelor of Technology in Computer Science (Expected May 2027) | GPA: 8.52/10

### Dr. Virendra Swarup Education Centre, Kanpur

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

## PROJECTS

### Service Provider Platform

Jun 2025

- Developed a hyper-local marketplace featuring a Razorpay-integrated payment gateway with automated refund logic, supporting tiered cancellation policies and secure transaction verification using HMAC SHA256 signatures.
- Engineered scalable RESTful APIs for geolocation-based matching and role-based dashboards, utilizing PostgreSQL ENUMs and B-Tree Indexes to optimize query performance by 30%.
- Architected a Digital Handshake and Identity system integrating Google OAuth 2.0 and 4-digit OTP verification to secure user sessions, validate service completion, and automate provider payouts and their reliability scoring.

### 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.
- 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.

### Movie Discovery and 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 AND 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 AND CERTIFICATIONS

### TECHNICAL SKILLS

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

### CERTIFICATIONS AND TRAINING

- The Bits and Bytes of Computer Networking** – Google (Coursera)
- Introduction to Machine Learning** – NPTEL
- Data Analytics and Visualization** – Accenture North America Virtual Experience Program
- Postman API Fundamentals Student Expert** – Postman

### LANGUAGES

- English- Fluent | Hindi- Native