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

TaskGenie: Hyper-Local Service Marketplace   **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.

Memoir: AI-Powered Dementia Care Assistant   **Aug 2025**
- Engineered a multimodal vision system utilizing Gemini Pro Vision for scene understanding and a Vision Transformer (ViT) pipeline, leveraging vector embeddings and cosine similarity to facilitate high-privacy local facial recognition.
- Developed a proactive voice-first safety engine by integrating Google Cloud STT/TTS and Flutter Workmanager, implementing automated voice-feedback loops and background notification scheduling to monitor user well-being.
- Architected a full-stack healthcare platform featuring an elderly-centric UX in Flutter and a sqlite backend, ensuring 99.99% data persistence and seamless caregiver tracking for medication schedules and memory journals.

CineBuzz: Movie Discovery & Recommendation Engine   **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.

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

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.