Kavya Telang

9321674457 | kavyatelang04@gmail.com | linkedin.com/in/kavya-telang-376946251 | github.com/KavyaTelang

Education

VIT Bhopal University — Bhopal, MP
Bachelor of Technology in Computer Science Engineering - CGPA: ***8.77*** — *2022 - 2026*

Technical Skills

Languages, Frameworks & Technologies: C, C++, Python, JavaScript, HTML/CSS, Node.js, Express.js, React.js, Git, REST APIs, JWT, Streamlit

Databases, Cloud & Developer Tools: MySQL, Vercel, Neon, CI/CD, Figma (Prototyping), Familiar with AWS & JIRA

Projects

Proximity: A High-Performance Geospatial API - MERN (Link)
| *MongoDB, Express.js, React.js, Node.js, REST APIs, Vercel, Git, CI/CD* — September 2025

- Engineered a high-performance RESTful API using Node.js, optimizing query latency by over 90% by implementing MongoDB's native **geospatial indexing (2dsphere).**
- Implemented the Haversine formula on the backend to accurately calculate real-world distances between coordinates, ensuring the relevance and precision of search results.
- Developed a responsive React.js frontend based on initial **wireframes and prototypes** , featuring a one-click geolocation feature. Deployed the full-stack application to Vercel via an automated CI/CD pipeline.

Packet Sniffer - C (Link)
| *C, Raw Sockets (AF PACKET), TCP/IP Protocol Stack, Binary Parsing, Linux/WSL, Git* — Nov. 2025

- Created a network packet analyzer in C, employing **raw sockets** to capture and parse network traffic at **Layer 2** (Data Link Layer).
- Implemented robust binary protocol parsing to dissect and extract header information from **Ethernet, IP, TCP, UDP, and ICMP** protocols.
- Engineered a real-time processing pipeline that calculates and displays network statistics

Chat Server - C (Link)
| *C, TCP/IP, POSIX Threads, Mutex Synchronization, Linux Sockets, WSL/Ubuntu, Git* — Nov. 2025

- Developed a concurrent TCP chat server in C that handles over 100 simultaneous users using **POSIX threads**.
- Designed and implemented a custom application-layer protocol supporting key features like **real-time** user presence, timestamped messages, and command execution (e.g., /users, /quit).
- Deployed the server on Linux/WSL, utilizing native socket programming and **system APIs** for reliable connection management and thread-safe state handling (using mutexes).

Extracurriculars & Achievements

Smart India Hackathon 2024 Finalist
VIT Bhopal University

Qualified for National Finals (PS-ID: 1673) from 400+ teams after clearing all internal rounds; engineered a Kotlin-based Android app integrating on-device ML models for real-time diagnosis of 15+ crop and livestock diseases, achieving 92% diagnostic accuracy on test data.

Social Media Volunteer
FLAMES Event, Data Science Club (October 2023)

Supported social media promotion by designing and scheduling posts to enhance event visibility and participant engagement. Assisted with participant registration and coordinated with the event management team and volunteers to ensure smooth execution of the event.