Omni Manwani

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Education

Indian Institute of Information Technology, Vadodara   2022-2026
Bachelor of Technology in Computer Science and Engineering   *CPI: 9.07*
- **Relevant Coursework:**
  Data Structures, Design and Analysis of Algorithms, Object Oriented Principles and Design(OOPs), Software Engineering, Database Management System, Computer Networks, Operating System, Artificial Intelligence

Skills and Tools

Technical Skills: C++, C, Python, SQL, NoSQL, Pandas, Matplotlib, Numpy, Seaborn, Scikit-learn, OpenSSL, spaCy
Tools: Git, VS Code, GCP, Google Collab, Jupyter Notebook, Latex , MS Office, Apache Server, AWS, Langchain, Neo4j

Experience

Silicon Valley Health-Tech Start-up ⧉ | *AI Developer Intern, Remote*   June 2024 – August 2024
- Developed chatbot using **RAG** (prevents hallucinations), **LLM** (Generates responses), **LangChain** (Chains prompts) and in-shot learning, used **few-shot learning** to improve accuracy.
- Generated Medical SOAP notes with doc-patient conversations, **Whisper** to transcribe and **GPT-4** (information fetching), Claude (Prompt analysis), and Gemini (Rephrase and structure) models combined for better SOAP notes.

Projects

Maternal Health Chatbot ⧉ | *LLM, spaCy, Neo4j, Random Forest, Flask, Transformers, NLTK, scikit-learn*
- Developed a **Flask**-based maternal health chatbot with **Neo4j** for structured risk assessment and **MongoDB** for patient history. Built a **Random Forest** and **Gradient Boosting** model, achieving 92% accuracy in risk prediction. Used **spaCy** and **NLTK**-based NER for symptom extraction (90%+ accuracy). Designed a real-time risk assessment interface (**HTML, JavaScript, CSS**) and deployed a **FastAPI** REST API for optimized chatbot interactions.

Movie Recommendation System ⧉ | *LLM, spaCy, Knowledge Graphs(Neo4j), ReDial Dataset, Tmdb Api*
- Built LLM-based movie recommender using **prompt engineering** for intent classification (chit-chat, recommend, query) for accurate user intention classification, **spaCy** for Named Entity Recognition (actors, directors, genres, writer) to extract movie-related attributes. Used **Neo4j** to map relationships between movie entities (cast, writers, directors, years, movie, genre), trained on **ReDial** dataset for personalized recommendations .

Walmart Sales Insights ⧉ | *Python, MySQL, Pandas, Matplotlib*
- Integrated real-time Walmart Sales CSV data using **Pandas**, queried and updated data trends via advance queries**(Triggers, Views, Checks)** in **MySQL**, visualized with **Matplotlib**, and implemented user-driven queries for flexible data analysis and reporting.

Leadership

Host | *IIITV*   January 2024- Present
- Served as Co-host to **Vice President of India**, **Tourism minister of India** and student host at **G20 Summit**.
- Served as an Anchor and Student Host for **VAMMAM** Research Conference on **Stealth Technologies**, facilitating discussions on defense innovations.

Women-in-Tech, GDSC | *Member, IIITV*   January 2023-Present
- Organized workshops, awareness programs, and collaborated with industry experts to mentor students. Advocated for CSE education, offering strategic insights, roadmaps, and fostering opportunities for tech community.

Cultural Committee | *Member, IIITV*   January 2023-June 2024
- Led Cultural Fest and coordinated cultural events. Managed committee's initiatives.

Certifications and Achievements

500+ Questions on Leetcode ⧉	April 2025
Runner-Up at Cellstrat Hackathon⧉ | Chatbot with multi AI agent cooperating with ASHA workers (GOI).	March 2025
Goldman Sachs Software Engineering Virtual Experience Program | **Forage** ⧉	June 2024
Google Cloud Computing Foundations ⧉	Oct 2023
Fundamentals of Deep Learning, NVIDIA ⧉	August 2023