Omni Manwani

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Education

Indian Institute of Information Technology, Vadodara-ICD   2022-2026
Bachelor of Technology in Computer Science and Engineering   *CPI: 9.09*
- **Relevant Coursework:**
  Data Structures, Design and Analysis of Algorithms, Object Oriented Principles and Design(OOPs), Software
  Engineering, Database Management System, Probability and Statistics in CS, Computer Networks, Operating System

Skills and Tools

Technical Skills: C++, C, Python, HTML, CSS, JS, SQL, NoSQL, Pandas, Matplotlib, Numpy, Seaborn, Scikit-learn, Deap
Tools: Git, VS Code, Google Cloud Platform, Google Collab, Jupyter Notebook, Latex , MS Office, G-Suite, AWS, Langchain
Soft Skills: Communication, Collaboration, Problem Solving, Critical Thinking, Adaptability, Leadership

Projects

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 knowledge graph to map relationships between movie entities (cast,
  writers, directors, years, movie, genre), trained on ReDial dataset for personalized recommendations .

Medical Chat Bot ⧉ | *Python, LangChain, GPT-4, Med-Prompt,*
- Developed GPT-4 medical chatbot with LangChain and Med-Prompt for enhanced patient care, applied fine-tuning
  and prompt engineering for optimized responses, implemented ConversationBufferWindowMemory for
  context-awareness and Byte Pair Encoding for efficient tokenization.

Data Analysis using Python ⧉ | *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.

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.

NeuroNexus Innovations ⧉ | *C++ programming Intern, Remote*   Jan 2024 – Feb 2024
- Developed and optimized game logic algorithms for enhanced user experience; implemented advanced file I/O for
  data persistence; applied object-oriented principles for modular, reusable code design.

Leadership

VAMMAM | *Host, IIITV-ICD*   August 2024
- Served as an Anchor and Student Host for VAMMAM Research Conference on Stealth Technologies, facilitating
  discussions and presentations on cutting-edge defense innovations.

Women-in-Tech, GDSC | *Member, IIITV-ICD*   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 a dynamic tech community.

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

G-20 Summit, India ⧉ | *Exhibition Host —IIITV-ICD*   May 2023
- Led educational initiatives for locals on G20's purpose and functions, while engaging with international delegates to
  deepen understanding of global economic cooperation.

Certifications and Achievements

NetElixir Hackathon| *NSGA-II, Multi-Objective optimization* ⧉   August 2024
300+ Questions on Leetcode ⧉   August 2024
Goldman Sachs Software Engineering Virtual Experience Program—Forage ⧉   June 2024
Google Cloud Computing Foundations ⧉   Oct 2023
Fundamentals of Deep Learning, NVIDIA ⧉   August 2023