Swayum Hastwala

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Education

VIT Bhopal University, Bhopal, Madhya Pradesh	Apr 2022 - Present
B.Tech in Computer Science & Engineering GPA: 8.48/10	
Modern Public School, Jhansi, Uttar Pradesh	July 2022
12th Standard (CBSE) Percentage: 89%	
Sun International School, Jhansi, Uttar Pradesh	July 2020
10th Standard (CBSE) Percentage: 91.8%	

Projects

VastraVerse | Python, Flask, HTML, CSS, JavaScript, Stable Diffusion, ControlNet, RAG

- Engineered an AI-driven cultural platform integrating computer vision and NLP to promote heritage awareness among modern users.
- Implemented Virtual Try-On using Stable Diffusion and ControlNet for personalized traditional attire visualization based on uploaded images.
- Built a Cultural Chatbot using a Retrieval-Augmented Generation (RAG) architecture, achieving 96% response accuracy through NLP-based intent parsing and real-time context-aware query handling.
- Developed a modular Flask backend with RESTful APIs and an interactive frontend using HTML/CSS/JavaScript for seamless UX.
- **Result**: A culturally immersive, AI-powered platform that revitalizes heritage awareness among modern users through virtual interaction and reliable guidance.

All About Coding | HTML, CSS, JavaScript, REST APIs

- Designed and developed an interactive educational platform to help developers master Data Structures and Algorithms (DSA) through a structured, topic-wise approach.
- Covered foundational and advanced topics including Arrays, Linked Lists, Trees, Graphs, and more, with intuitive navigation and learning flow.
- Integrated dynamic features such as LeetCode profile fetching, topic-based navigation, and curated coding resources to support hands-on learning.
- **Result:** A developer-centric learning hub that simplifies DSA mastery through interactive design and real-time coding insights.

StockSentry | Python, scikit-learn, LangChain, Hugging Face, NewsAPI

- Developing a hybrid system combining **time-series models (LSTM)** and **real-time news sentiment analysis** for stock forecasting.
- Integrated time-series modeling using LSTM with NLP-driven sentiment scoring of financial news articles and corporate event data.
- Utilized LangChain AI agents to assess and prioritize news events (e.g., product launches, scandals) based on potential market impact.
- Built a modular pipeline for news ingestion, classification, and context-aware prediction, delivering enhanced explainability and market reasoning.
- **Result:** A dynamic and explainable forecasting system that outperforms traditional models by factoring in live sentiment and contextual relevance.

Skills

- **Languages**: Python, C++, Java, SQL, JavaScript
- **Frameworks**: Pandas, NumPy, scikit-learn, TensorFlow, Hugging Face, LangChain, Flask, ReactJS, HTML/CSS, matplotlib
- **Tools**: GIT, Postman, AWS, Google Colab

Achievements & Certifications

- Solved **450+ DSA problems** on LeetCode and **200+ DSA problems** on GeeksforGeeks
- Secured 3rd rank in the Bug Bonanza event organized by the GeeksforGeeks club at VIT
- Reached Semi-Finals of Bharat GenAI Hackathon
- Ethnus Certified AWS Cloud Practitioner (Ethnus)
- GEN AI Using IBM Watsonx (IBM Adroit)

Hobbies: Travelling, Music

Languages: Hindi, English, Spanish (Basic), Japanese (Basic)