

# Swayum Hastwala

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## Education

VIT Bhopal University, Bhopal, Madhya Pradesh	July 2022 - Present
B.Tech in Computer Science & Engineering <b>GPA: 8.43/10</b>	
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, React, Stable Diffusion, IPAdapter, RAG, Docker

- 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.
- Built a CulturalChatbot 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 REST APIs, containerized for reproducibility, and an interactive frontend.
- 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, React, Node.js, 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, streamlit

- 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

- Programming & Tools:** C, C++, Python, Java, SQL, JavaScript, Git/GitHub, Docker, Linux, AWS
- Frontend:** React, HTML, CSS
- Backend & APIs:** Node.js, FastAPI, Flask
- Databases:** MongoDB, MySQL
- AI/ML:** PyTorch, TensorFlow, LangChain, Hugging Face, scikit-learn, Kaggle, n8n

## Achievements & Certifications

- Solved **500+ DSA problems** on LeetCode and **350+ 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)
- Contributed to open-source projects (Hacktoberfest, GSSoC) and analyzed an OpenPrinting CUPS issue related to invalid IPP keyword sanitization.

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