Sachin Sharma

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Education

Vellore Institute of Technology   Apr 2022 - Present
Bachelor of Technology in Computer Science & Engineering

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.

AI Predictor | Python, Flask, Scrapy/BeautifulSoup, NumPY, HTML/CSS

- Developed an AI-enabled price tracking platform that scrapes real-time retailer data and uses **time-series models** (Python) for future price forecasting.
- Integrated time-series modelling using LSTM with NLP-driven sentiment scoring of financial news articles and corporate event data.
- Implemented a **Flask** Backend that manages data retrieval (Scrapy/BeautifulSoup), persistence (SQL), and orchestrates the prediction workflow via RESTful APIs.
- Designed a Frontend UI to visualize comparative prices, historical data, and the **AI-predicted trend curve**, empowering optimal purchase timing.

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.

Skills

- **Languages**: Python, C/C++, Java, SQL
- **Framework/Libraries**: Pandas, NumPy, TensorFlow, Stable Diffusion, ControlNet, Flask, ReactJS, HTML/CSS, matplotlib, RAG Architecture, NLP Pipelines
- **Tools**: GIT, Postman, AWS, Google Colab

Achievements & Certifications

- Solved **1000+ DSA problems** on LeetCode and **800+ DSA problems** on GeeksforGeeks
- Hackerrank **SQL Advance** and **Problem-Solving Intermediate** (Hackerrank)
- Reached Semi-Finals of **Bharat GenAI Hackathon**
- Oracle Certified **Data Science Professionals** (Oracle)
- **GEN AI Using IBM Watsonx** (IBM Adroit)

Languages: Hindi, English