

Sachin Sharma

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Education

Vellore Institute of Technology, Bhopal

Bachelor of Technology in Computer Science (CGPA: 8.25)

Expected May 2026

Bhopal, Madhya Pradesh

Royal Public Senior Secondary School

XIIth Science Stream (Percentage: 87.6)

March 2022

Gurugram, Haryana

Royal Public Senior Secondary School

Xth (Percentage: 91.6)

March 2020

Gurugram, Haryana

Projects

VastraVerse | Python, Flask, HTML, CSS, JavaScript, Stable Diffusion, ControlNet, Gemini API

- 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 Gemini API, achieving 96% response accuracy through NLP-based intent parsing and real-time 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 (Web Development) | 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.
- Led content architecture to optimize user engagement and educational impact.
- Result: A developer-centric learning hub that simplifies DSA mastery through interactive design and real-time coding insights.

Movie Recommendation System (ML) | Python, NLP, NLTK, Streamlit

- Built a movie recommendation system using the TMDB 5000 dataset with content-based filtering.
- Applied NLP techniques like tokenization and stemming to process movie data.
- Calculated cosine similarity to identify and rank similar movies.
- Deployed the system with an interactive UI using Streamlit.

Technical Skills

Programming Languages: C/C++, Java, Python, SQL

Concepts: Data Structures and Algorithms, Object-Oriented Design, Operating System

Tools: GitHub, Git, Visual Studio Code, Android Studio

Certifications

Generative AI (IBM) Developing knowledge in Generative AI, focusing on model training and prompt engineering.

Data Science Professional Certificate (Oracle) Gaining proficiency in data analysis, visualization, and data science.

Bits and Bytes of Computer Networking (Coursera) Acquired fundamental knowledge of computer networking concepts.

Achievements and Extracurricular Activities

Solved over **900+ LeetCode problems** and **700+ GeeksforGeeks problems**.

Hackathon Participation Participated in a hackathon conducted by GeeksforGeeks Club, VIT Bhopal University.

SQL (Advanced Level) (HackerRank) Validated advanced SQL skills through solving complex challenges.