SWATI SINHA

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Education

Madan Mohan Malaviya University Of Technology   Nov 2022 – May 2026
Bachelor of Technology in Computer Science (SGPA: 8.73)   *Gorakhpur, U.P.*

New Kingston Senior Secondary School   2020 – 2021
Intermediate (CGPA: 9.62)   *Kanpur, U.P.*

Kendriya Vidyalaya Kanpur, Cantt   2019
Matriculation (CGPA: 10)   *Kanpur, U.P.*

Experience

Sabudh Foundation, Mohali (Remote)   July 2025 – Ongoing
Data Science Intern
- Implementing LLM-driven document parsing and retrieval system, integrating NER, summarization, and retrieval-augmented generation (RAG) with Python and Transformers.
- Contributing to predictive modeling and machine learning tasks to derive actionable insights.
- Collaborating with a team to build end-to-end data pipelines for a social impact use case.

Indian Institute of Technology Jodhpur (Remote)   May 2025 – August 2025
ISRO Project Intern [Certificate]
- GUI-based Spacecraft Data Analyzer – Built an end-to-end solution with Django backend and React + D3.js frontend for spacecraft data visualization.
- Implemented secure backend services using Django and Python, ensuring robust data handling and high-level security protocols.

Projects

JournalWeb | *Next.js, MongoDB, Express, Node.js*   **GitHub | Live Project**
- A full-stack digital library platform enabling advanced academic search, secure user management, and institutional analytics for streamlined research.
- Built with Next.js, React, Tailwind CSS, and Zustand on the frontend, and Node.js, MongoDB, and JWT-based authentication on the backend with AWS S3 for scalable storage.
- Integrated DOAJ/DOAB APIs, Chart.js analytics, OTP email verification, and role-based access for a responsive and secure user experience.

YouTube Synthesizer | *Python, Streamlit, OpenAI API, LangChain, RAG*   **GitHub | Live Project**
- Developed an AI-based web app that summarizes YouTube videos into concise, structured notes using LLMs.
- Integrated Streamlit for an interactive UI and implemented transcript parsing, text summarization, and key-point extraction.
- Automated an AI pipeline to provide quick insights from long videos, enhancing productivity and learning efficiency.

Morning Buddy | *Python, Streamlit, Google Gemini, OpenWeather API, NewsAPI, SerpAPI*   **GitHub | Live Project**
- Built an AI-powered daily companion app providing weather updates, personalized news, and smart day planning.
- Integrated Google Gemini for AI-driven news summarization and recommendations, and used multiple APIs for real-time data.
- Designed a responsive Streamlit UI with inspirational quotes and dynamic content for an engaging user experience.

Technical Skills

- **Programming Languages:** C++, Basic Java, JavaScript.
- **Web Development:** HTML, CSS, React.js, MongoDB, Node.js, Bootstrap, Tailwind, SQL.
- **Data Science:** Python, Machine Learning, Dataiku, Natural Language Processing, Deep Learning.
- **Tools & Technologies:** Git & GitHub, Jupyter Notebook, Google Colab, VS Code, MS Excel, Anaconda.
- **Coursework:** Data Structures and Algorithms, Database Management System, Object Oriented Programming, Computer Network, Operating System, Artificial Intelligence, Machine Learning.

Certifications/Extracurricular

- **Introduction to Machine Learning – NPTEL (IIT Madras)**   Certificate
- **Getting Started with Competitive Programming – NPTEL (IIT Madras)**   Certificate
- **Artificial Intelligence Fundamentals – IBM**   Certificate
- **The Web Developer Bootcamp – Udemy**   Certificate
- **Extracurricular:** Participated in Smart India Hackathon, SHE HACKS by UNSTOP, and qualified for Flipkart GRiD 6.0 Level 1.