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.

CDAC, Greater Noida — June 2024 – July 2024
Cybersecurity Intern [Certificate]
- Worked on DDoS mitigation project using pfSense, an open-source firewall and router platform.
- The project successfully reduced the impact of DDoS attacks, enhancing network resilience.

Projects

MIL-STD-1553B Spacecraft Data Analyzer | *Django, React, Tailwind, D3.js*   **Frontend | Backend | Live Project**
- Built Django REST APIs for scheduling & protocol analysis, integrated React & D3.js for real-time visualization.
- Deployed scalable solution and coordinated front-end/back-end delivery in agile workflows.

JournalWeb | *Next.js,MongoDB,Express,Node.js*   **GitHub | Live Project**
- Developed a Library Management System using MERN Stack and Next.js for managing books, users, and transactions.
- Implemented features like user authentication, role-based access, book issue/return, and real-time inventory management. Deployed a responsive web app to automate and streamline library operations.

Student Performance Predictor | *Python, Scikit-learn, Flask, React*   **GitHub**
- Built a machine learning model using Scikit-learn to predict student performance based on academic, socio-economic, and lifestyle factors.
- Developed a Flask API for serving predictions and integrated it with a React frontend for an interactive user experience.
- Implemented data preprocessing, feature engineering, and visualization to provide insights into key factors influencing performance.

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.