

Smriti Saroj Sinha

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Skills

Core skills C++ , Python , DSA, OOPs Concept, Competitive programming, Computer Networks, Operating Systems, DBMS, HTML, CSS, JavaScript, Tailwind CSS, MySQL, MongoDB, Git, Github, Machine Learning

Soft Skills Problem-Solving, Critical Thinking, Collaboration, Communication, Adaptability, Time management, Creativity, Leadership

Experience

Techgyan-IIT Bombay

Jun 2023 – Aug 2023

Machine Learning Using Python

- Designed and implemented a predictive model during an internship at **Techgyan, IIT Bombay** to classify rock and mine samples.
- Leveraged **Python** libraries including **scikit-learn**, **Matplotlib**, and **NumPy** for comprehensive data analysis and model development.
- Developed and optimized a **logistic regression algorithm** on a dataset exceeding **20,000** samples, achieving high accuracy in classification.
- Enhanced the model's performance, improving its efficiency in differentiating between rock and mine classifications.

Internpe

Jul 2024 – Aug 2024

Python Programming

- Designed and developed interactive projects, including a **Digital Clock**, **GUI-based Snake Game**, **Tic Tac Toe**, and **Connect 4**, utilizing **Python** for game logic and graphical user interface (GUI) design.
- Showcased creativity and technical expertise by creating user-centric applications with intuitive and engaging interfaces.
- Implemented modular programming practices to ensure scalability and maintainability of code across projects.
- Integrated real-time updates and interactive features to enhance user experience and engagement.

Education

Central University of Haryana

2021–2025

Bachelor of Technology, in Computer Science and Engineering (7.5 CGPA)

Minors: Introduction to Cyber Security -NPTEL

Aug 2024 – Dec 2024

Certifications

- Complete Git and Github
- Tailwind CSS (Basic to Advanced)
- SQL(Basic to Advanced)

Projects

Flappy Bird Game (Pygame)

- Developed a **Flappy Bird clone** using **Pygame**, incorporating advanced **object collision mechanics** and **real-time score tracking** for enhanced gameplay experience.

QR Generator GUI (Python)

- Developed a **Python-based GUI application** for generating, customizing, and saving QR codes using libraries such as **Tkinter** and **qrcode**.

AI ChatBot (MERN Stack)

- Designed and implemented an **AI-driven chatbot** using the **MERN stack** (MongoDB, Express.js, React.js, Node.js) to deliver advanced text-processing capabilities.

ChatApplication (Django)

- Designed and developed a fully functional **chat application** using **Django**, providing real-time communication capabilities.

My Portfolio Website (React)

- Designed and developed **Personal Portfolio Website** using **React**, to showcase my skills and projects.

Achievement

Mastered 150+ DSA problems on LeetCode with a 120+ day streak, showcasing strong problem-solving and algorithmic skills.