Smriti Saroj Sinha

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Skills

Core skills C++, Python, DSA, OOP Concepts, 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

Experience

Techgyan-IIT Bombay   **Jun 2023 – Aug 2023**
Machine Learning Using Python

– Designed and implemented a predictive model during a 2-month internship at Techgyan, **IIT Bombay**, to classify rock and mine samples, which achieved a classification accuracy of **92%**.

– Processed and analyzed **20,000+** samples using Python libraries, including **scikit-learn, Matplotlib, and NumPy** enabling comprehensive data-driven insights.

– Enhanced the model's performance, improving differentiation accuracy for rock and mine samples by **8%** compared to the baseline model.

Internpe   **Jul 2024 – Aug 2024**
Python Programming

– Designed and developed **4 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.

– Created **user-centric applications** with intuitive and engaging interfaces, achieving an average **user engagement time of 20+ minutes per game** and a **95% functionality success rate** during testing.

– Delivered all projects within **50% of the allocated timeline**, demonstrating strong time management and technical proficiency.

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.

Achievement

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