Sanskar Sahai

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EDUCATION

Bachelor of Technology **SRMCEM, Lucknow** *Lucknow, India* **09/2021 - 08/2025**

Electronics And Communication Engineering

PROJECTS

Object Detection **01/2023 - 04/2023**

(HTML, CSS, JavaScript)

- Led development of an object detection program using CSS, HTML, and JavaScript to identify objects in real-time through the user's camera
- Implemented a confidence scoring system to provide a percentage-based accuracy measure for object identification, enhancing user trust in the program's predictions.
- Optimized the program's performance to ensure efficient and accurate object detection, improving user experience and application reliability.

Number Detection **02/2023 - 03/2023**

(Pycharm)

- Led the development of a number detection program using Python and TensorFlow, training a neural network on the MNIST dataset to accurately identify handwritten digits.
- Implemented a model architecture with multiple dense layers and the ReLU activation function, achieving high accuracy in digit recognition tasks.
- Developed a real-time digit detection system utilizing OpenCV for image processing, enabling the program to predict and display the identified number with visual confirmation.

SKILLS

- **LANGUAGES**: Python | Java | C
- **WEB DEVELOPMENT:** HTML | CSS | JavaScript
- **BACKEND AND DATABASE:** SQL
- **ROBOTICS:** Arduino | Embedded System | Design Thinking
- **OTHERS:** Object-Oriented Programming (OOP)
- **SOFT SKILL:** Management | Teamwork | Critical & Creative Thinking | Adaptability

EXPERIENCE/COMMUNITY

Internship Blue Heart Lab *Lucknow* **10/2022 – 12/2022**

- Developed and programmed line-following and remote-controlled robots, enhancing their performance and responsiveness for various applications.
- Collaborated effectively in a team environment, providing support and guidance to peers, ensuring timely completion of tasks and daily deadlines.
- Outlined and configured routines and parameters for multiple robotic systems, improving their operational efficiency and reliability.

Mentorship

GDSC SRMCEM **08/2023 – 06/2024**

- Conducted technical events on cloud computing, Android development, and GenAI for over 250 students, and facilitated contributions to open-source projects, enhancing practical skills and knowledge. Supported skill development through personalized guidance, leading to a 74% increase in registration compared to the previous year

SRMCEM ROBOTICS CLUB (Formerly GROBOTS) **09/2023 – Present**

- Facilitated robotics learning for over 50 students, boosting technical skills. Supported club growth and organized competitive events, fostering collaboration and skill development