

Siddharth Ranka

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Education

J.K. Lakshmipat University, Jaipur

Bachelor of Technology in Computer Science and Artificial Intelligence (2023-2027)

SGPA 1: 7.95 | SGPA 2: 7.75 | SGPA 3: 8.286

CGPA: 7.85 (1st year)

Indian Institute of Technology, Jodhpur

Completed Fourth Semester (Spring 2025) as part of an academic exchange program

Eden International School, Bhilwara (Rajasthan) PCM Student

Technical skills

- **Programming Languages:** Python, C, C++, SQL
- **Libraries and Frameworks:** TensorFlow, NumPy, Pandas, Matplotlib, Tkinter
- **Development:** Web Development (HTML, CSS, JavaScript, MySQL)
- **Machine Learning:** Data Reprocessing, Model Training and Evaluation
- **Other Skills:** Data Structures (DSA), Competitive Programming
- **Code Chef Rating:** 1300+

Projects

Multi-Modal Authentication System

- **Description:** Developed a secure authentication system integrating facial recognition and a secure login page.
- **Technologies Used:** Python, OpenCV, Flask, MySQL
- **Outcome:** Gained hands-on experience in biometric security and authentication periods.

Steganography Project

- **Description:** Implementation a steganography-based encryption system for secure data hiding.
- **Technologies Used:** Python, Image processing Libraries
- **Outcome:** Learned Steganography techniques for secure information concealment.

Student Management System

- **Description:** Developed a student profile management and registration system for college administration.
- **Technologies Used:** HTML, CSS, JavaScript, MySQL
- **Outcome:** Strengthened database management and full-stack development skills.

Machine Learning Project – Stroke Prediction

- **Description:** Built a ML model for stroke prediction using various machine learning algorithms.
- **Technologies Used:** Python, Scikit-Learn, TensorFlow, Pandas
- **Outcome:** Improved expertise in ML algorithms and model evaluation.

Task Management System

- **Description:** Designed a system to manage tasks with functionalities like add, delete, update, and due date alerts.
- **Technologies Used:** Python, Tkinter, Pandas
- **Outcome:** Strengthened UI design and Python programming skills.

Activities

Internal Committee Member, Competitive Programming Club at JKLU (2023-24)

Selected till Phase 3, Rajasthan Police Hackathon (2023-24)

- **Project:** Geo-tagging of privately owned cameras
- **Skills Developed:** Raspberry Pi, Wireshark, NodeMCU

Additional

- **Volunteers:**
AIC Prodyageek 2023 (Techfest): Internal Arrangements
MSI HackJKLU 2024 (Hackathon): Internal Arrangements
JK Tyre Sabarang 2023 (Annual Cultural Fest): Event Support
- **Language Skills:** English, Hindi
- **Interests:** Machine Learning, Cybersecurity, Web Development.

Certifications

UI/UX portfolio with GitHub : <https://coursera.org/share/f704a9cd9ab9a025249087fae0a71b58>

Programming for everybody by University of Michigan: <https://coursera.org/share/c184131823a7dd141cb47dafb58858bb>

Programming Fundamentals by Duke University: <https://coursera.org/share/9b5c93784819934f3ce73bbe1317090f>