

# NANDITA SINGH

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## EDUCATION

<b>Bachelor of Engineering:</b> Institute of Engineering & Technology, Agra	2021-2025
<b>Diploma:</b> BTEUP	2018-2020
<b>High school:</b> Central Public School	2016 - 2017

## SKILLS

- **Programming:** Data Structures & Algorithms, C/C++, Python
- **Hardware Programming:** Arduino, ESP32
- **Developer Tools:** VS Code, Eclipse, Keil, Jupyter, Arduino IDE
- **Technologies/Frameworks:** GitHub
- **Event Handling:** Successfully coordinated and managed technical and cultural events, ensuring smooth execution.
- **Anchoring:** Delivered engaging and confident presentations as an anchor for various school and college events.

## EXPERIENCE

### Internship |Indian Railways

June 2023 – July 2023

- As Intern at Indian railways my multifaceted role primarily focused on key areas: Business Development, Locomotive testing, and Maintenance of service shops, Supervise Data Acquisition.
- Beyond these core responsibilities actively engaged in managing client relationship serving as a primary point of contact and addressing any enquiries or concerns promptly and professionally Overall, role as an Intern at Indian Railways requires a blend of Strategic thinking, interpersonal skills.

## PROJECTS

### Home Automation | Arduino-UNO, ESP8266 Wi-Fi Module, IoT GeckO, Sensors, C

June 2023

- Developed and integrated IoT devices using Arduino-UNO and ESP8266 Wi-Fi module.
- Programmed relay modules to control household appliances via a smartphone app.
- Successfully automated various home appliances, improving energy efficiency and providing remote control capabilities through a smartphone application

### Advanced Railway Track Fault Detection Using ML with GSM & GPS integration

Dec-2024

- Designed a system to detect and report railway track faults using machine learning algorithms.
- Integrated GSM and GPS modules to send real-time fault alerts with accurate location coordinates.
- Implemented predictive maintenance features to enhance railway safety and operational efficiency.

## EXTRA-CURRICULAR ACTIVITIES

### Kabaddi

- ❖ Led the kabaddi team to the District level competition in which we showcased incredible teamwork, ability, and backbone.
- ❖ Secured the 4th rank.
- ❖ Showcasing our dedication to excellence and sportsmanship.

### Tekken -6(girls)

- ❖ Participated in a Takken-6(girls) in 2022 organised by IETE- Gaming club.
- ❖ The event aimed to raise awareness about online gaming. With a strong turnout and support from the community, we successfully achieved our goals.

## LEADERSHIP

### House Captain – Sports (2018-19)

- ❖ Organizing and leading team practices, motivating teammates, communicating with coaches, coordinating game schedules, fostering teamwork and sportsmanship.
- ❖ Representing the house in competitions.

### Team Lead- District Level Kabaddi Competition (2018-19)

- ❖ Led the kabaddi group to the District level competition.
- ❖ Attaining a commendable 4th rank.
- ❖ The leadership, strategic planning, and teamwork capabilities contributed to the team's fulfillment.