

CHETAN CHAUHAN

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OBJECTIVE

Enthusiastic and detail-oriented Computer Science (IoT) undergraduate with hands-on experience in embedded systems, data analytics, and real-time automation. Seeking to leverage technical and leadership skills to contribute to innovative IoT and data-driven solutions in a dynamic organization.

EDUCATION

Bachelor of Technology, Computer Science and Engineering (IoT), NIET	2022 - 2026
Minor Degree, Artificial Intelligence And Machine Learning, NIET	2022 - 2026
Senior Secondary School, Aggarwal Public School	2021
<i>Marks: 93.4%</i>	
High School, Aggarwal Public School	2019
<i>Marks: 85.3%</i>	

SKILLS

Programming	C/C++, Embedded C, Python, JavaScript (Basics)
Data Analysis & Visualization	Power BI, Tableau
IoT & Embedded Systems	NodeMCU (ESP8266), Arduino, Sensors (IR, LDR, DHT, Gas, Ultrasonic)
Data Management & Databases	Firebase Realtime DB, MySQL, SQLite3
App & Web Development	MIT App Inventor , HTML, CSS
Tools & Platforms	Arduino IDE, VS Code, Power BI, Tableau, MIT App Inventor
Soft Skills	Teamwork & Collaboration, Problem-Solving, Analytical Thinking

EXPERIENCE

Summer Intern	August 2023
NIET IIC, AICTE IDEA Lab	<i>Greater Noida, IN</i>

- Achieved a 20% improvement in project efficiency through design thinking, 3D printing, and automation.
- Led a team of 4 members which resulted in a 30% improvement in engineering method and development speed of a robotic arm prototype dedicated for medical applications.
- Developed a prototype robotic arm for the medical field that performed precision tasks using design thinking, laser cutting, CNC machining, and automation.

PROJECTS

Remote Disaster Management Rover.

- Built a smart rover using **NodeMCU, gas, temperature, and ultrasonic sensors** for disaster zone monitoring with real-time control.
- Developed a web interface for live vehicle control and **data visualization via Power BI**, improving situational awareness **by 50%**.
- Enabled remote deployment in hazardous areas, **reducing field inspection risks by 80%**.

Smart Street Light System.

- Created a motion-activated lighting system using NodeMCU, IR, and LDR sensors, **cutting energy use by 40%**.
- Logged vehicle movement and light activity to **Firebase with real-time data accuracy**.

- Analyzed 1-month usage patterns to help police and vendors **improve street operations.**

Classroom Automation System.

- Developed a retrofit IoT system to automate fans and lights using presence and **climate sensors via NodeMCU.**
- Controlled appliances through a mobile app with manual/auto modes, synced via Firebase.
- Logged occupancy and energy usage data, **improving classroom efficiency by 35%.**

ACHIEVEMENT

- Secured 2nd Runner-Up in Iotron 2.0 Hackathon by leading a team to develop an IoT-based Smart Street Light system with real-time data analytics.

CERTIFICATES

- Python basics - University Of Michigan.
- Python for Data Science, AI & Development - IBM
- Human Centered Design for Inclusive Innovation - University Of Toronto
- IoT Raspberry Pi with Projects – Infosys
- Introduction to Artificial Intelligence (AI) - IBM
- IOT Devices - Illinois
- Interfacing with the Arduino - University of California, Irvine

LEADERSHIP

- Hardware Head Coordinator – Signodes IoT Club

Organized and led technical events like Iotron 3.0, Robo Soccer at Ebullience'25 and a week-long IoT workshop (Nexus 2.0) with 50+ participants, managing hardware operations and team coordination effectively.