

Utkarsh Raj

+91 8757581855 | utkarshraj54321@gmail.com | [LinkedIn](#) | [GitHub](#) | [LeetCode](#)

PROFESSIONAL SUMMARY

Enthusiastic and detail-oriented Web Developer and IoT enthusiast with hands-on experience in full-stack projects, embedded systems, and smart automation. Skilled in HTML, CSS, JavaScript,, Java, and IoT hardware integration. Proven ability to deliver innovative solutions through academic projects and hackathons, with strong team collaboration and problem-solving skills.

SKILLS

- Programming Languages: Java, C, Python, JavaScript
 - Web Technologies: HTML, CSS, JavaScript, React
 - Database: MySQL, MongoDB
 - IoT & Hardware: Arduino, ESP32, Raspberry Pi, Sensors, Actuators
 - Soft Skills: Communication, Leadership, Teamwork
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INTERSHIP EXPERIENCE

Web Development Intern – Prodigy InfoTech (2024)

- Developed responsive and interactive front-end web projects including a GYM Landing Page and a Personal Portfolio Website using HTML, CSS, and JavaScript.
 - Gained hands-on experience in real-world UI design and front-end best practices.
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PROJECTS

Smart Parking System with Web Application

- Built an end-to-end smart parking solution using Raspberry Pi, ESP32-CAM, and servo motors. Developed a web app for slot booking, payment integration, and real-time hardware sync for gate automation and live display.
- Technologies Used: HTML, CSS, JavaScript, MySQL, Raspberry Pi, Arduino, ESP32.

Home Automation using Hand Gesture Recognition

- Created a gesture-based system to control appliances by detecting finger count via a camera model using OpenCV and MediaPipe. Sent commands to ESP32 for real-time device control.
- Technologies Used: Python (OpenCV, MediaPipe), ESP32, Arduino IDE, Embedded C.

Car/Bike Rental Web App

- Car/Bike Rental Web AppTrained a computer vision model to detect the number of raised fingers and sent corresponding commands to the ESP32 board via serial communication.
 - Technologies Used: HTML, CSS, JavaScript, PHP, MySQL.
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EDUCATION

B.Tech in Internet of Things

Noida Institute of Engineering and Technology, Greater Noida
Expected Graduation: 2026

HOBBIES & INTERESTS

- Sports: Cricket
- Photography, Travel Enthusiast

CERTIFICATIONS

- Python for Data Science, AI & Development – Coursera
 - Python Basics – Coursera
 - IoT Devices – Coursera
 - Introduction to Artificial Intelligence (AI) – Coursera
 - ReactJS – Infosys
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