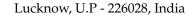
# **ADITYA SINGH**

+91-9621400216 | singhadityay6511@gmail.com







# **OBJECTIVE**

Seeking a challenging position in your company to leverage my expertise and contribute to innovative projects, particularly at the intersection of IoT and software development. I aim to apply my practical problem-solving skills and technical knowledge to drive impactful solutions in a dynamic and growth-oriented environment.

#### **EDUCATION**

#### Babu Banarasi Das Institute of Technology and Management

2021 - 2025

B.Tech (Electronics and Communication Engineering

Lucknow,India

∘ SGPA: 7.64

• Vidya vahini

2021

*Intermediate - 12th* o Grade: 70.0%

Prayagraj, India

Central Public School

2019

High School - 10th

◦ Grade: 82.2%

Zamania, india

# **PROJECTS**

## • Project A: [IR Based Proximity Sensor]

Jan 2023

Tools: [IR Sensor]

• Developed an IR-based proximity sensor using infrared rays to detecct distance

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- Implemented threshold detection to trigger alarm when a specific distance threshold is reached
- Threshold distance for the IR Sensor is 5cm

## • Project B: [Automated Car Parking System]

Oct 2023

Tools: [Arduino Uno, Embedded C Programming]

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- Designed and implemented an automated car parking system using Ultrasonic sensors and Arduino Uno
- Developed software logic to efficiently manage parking spaces and vehicle detecction
- Developed Embedded C program for easy integration with Arduino Uno

# • Project C: [Egg Quality Grading (Open CV)]

Aug 2024

Tools: [Roboflow, Python]

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- Developed an Egg quality grading system using object detection techniquea with OpenCV and Roboflow
- Implemented Object detection, processing 589 images
- $\circ$  Selected and annotated images of eggs to categorize them into different quality grades
- Trained a model to accurately identify and classify eggs based on visual features

# **SKILLS**

- Programming Languages: Python, MATLAB
- Microcontroller Development: Arduino Uno
- Data Structure and Algorithms (DSA): Python
- Tools & Libraries: NumPy, Pandas
- Technical Skills: IR and Ultrasonic sensor integration
- Version Control: Git

#### PROFESSIONAL MEMBERSHIPS

• Institute for Electronics & Telecommunication Engineers [IETE], Ref. No: IFSC-1008

Valid upto - 2026

# **CERTIFICATIONS**

Elite certificate from NPTEL for completing course Introduction to Internet of Thing: Certification

April 2023

• Google certificate for completing course Get Started with Python: Certification

Feb 2024

# **ADDITIONAL INFORMATION**

Languages: Hindi, English

**Interests:** Listening Music, Playing Cricket