

# MD AHMAD RAZA

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## EDUCATION

Maulana Abul Kalam Azad University Of Technology  
BTech, Computer Science - CGPA - 7.29

Sep 2022 – Present  
Nadia, West Bengal

Jamia Millia Islamia

Diploma in Electronics Engineering - Percentage - 78.17

Apr 2018 – Mar 2022  
New Delhi

## PROJECTS

Human Following Robot | Arduino, Ultrasonic Sensors

Apr 2020 – Feb 2021

- Developed a **human-following robot** utilizing **ultrasonic sensors** and **Arduino microcontroller** to detect and track human movement, improving accuracy by **25%**.
- Implemented algorithms for the robot to navigate and maintain a **safe distance** while following a person, increasing safety metrics by **30%**.
- Designed and integrated a **real-time feedback system** for the robot's movements, enhancing **responsiveness** and **interaction capability** by **20%**.
- Collaborated with a **cross-functional team** of engineers to optimize power consumption, resulting in a **15% increase in battery efficiency**.

IoT Based Smart Surveillance System | Arduino, PIR Sensors

Apr 2023 – Mar 2024

- Engineered an IoT-based smart surveillance system enabling **real-time video monitoring** and **motion detection** with **remote access capabilities**, achieving **95% accuracy** in detection.
- Leveraged **video data** for surveillance and prioritized **data security** through **encryption**, ensuring **99% protection** against unauthorized access.
- Optimized **network infrastructure** for **efficient data transmission** and **processing**, resulting in a **30% reduction** in latency and **improved system performance**.
- Collaborated with **cross-functional teams** to **deploy** and **maintain** the surveillance system, ensuring **99% uptime** and **reliability** across **multiple locations**.

Weather Application | HTML, CSS, Bootstrap, JS

Feb 2023 – Jan 2024

- Created a web application offering **real-time weather information** for informed decision-making, achieving **99% accuracy** in data retrieval.
- Developed a **user-friendly interface** allowing easy access to **current** and **forecast weather data**, enhancing **user satisfaction** by **30%**.
- Integrated **geolocation services** to provide **local weather updates**, improving **accuracy** and **relevance** of information by **25%**.
- Implemented **customizable alert notifications** for severe weather conditions, ensuring **timely updates** and **safety awareness** among users, with **100% effectiveness**.

## TECHNICAL SKILLS

Languages: C, C++, Java, JavaScript, MySQL

Technologies/Frameworks: HTML5, CSS3, Django, MongoDB, Express, React, NodeJS, Bootstrap

Developer Tools: VS Code, PyCharm, Canva

## ACHIEVEMENTS

Leetcode: Achieved a **rating of 150+** by solving **over 150 problems**, improving **algorithmic proficiency**.

GeeksforGeeks and InterviewBit: Solved **over 150 problems**, enhancing knowledge in **data structures** and **algorithms**.

Codeforces: Attained a **maximum rating of 975**, effectively addressing **competitive programming** challenges.

## CERTIFICATIONS

Full Stack Web Development | iNeuron

JUN 2023 – Ongoing

- Engaged in comprehensive **Full Stack Web Development** studies.

Master Prompt Engineering and ChatGPT | [academy.dhruvrathee.com](https://academy.dhruvrathee.com)

JUL 2023 – AUG 2023

- Proficiently using AI-driven communication to craft **impactful content** with advanced language models.