



Mir Sarfaraz Ahmed

Computer Science Learner | IoT & AI Enthusiast

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LINKS

GitHub

Mir-Sarfaraz-Ahmed

LinkedIn

mir-sarfaraz-ahmed

Portfolio

GitHub Pages

EDUCATION

Class XII — Science

R.P.V.V Gandhinagar

75% • CBSE • 2025

Class X

R.P.V.V Gandhinagar

86% • CBSE • 2023

JEE Percentile

76

TECHNICAL SKILLS

Python

SQL

HTML

Arduino/IoT

JavaScript

CSS

TOOLS & PLATFORMS

Canva

Notion

GitHub

Arduino IDE

VS Code

INTERESTS

- Gaming
- Emerging Tech
- Productivity Tools
- AI & ML

CAREER OBJECTIVE

Motivated and detail-oriented student seeking admission into B.Tech in Computer Science Engineering, with foundational knowledge in programming and a keen interest in intelligent systems and technology-driven problem solving.

PROJECTS

IoT Smart Traffic Management System (V2I)

Arduino • IR Sensors • RF Module • Gas Sensor

- Developed a traffic regulation prototype using IR sensors to monitor and control vehicular flow at intersections.
- Designed an emergency RF override mechanism to prioritize ambulance movement by clearing traffic lanes in advance.
- Implemented dynamic signal timing algorithm on Arduino Uno based on real-time traffic density detection.
- Built a gas sensor-based fire detection system that triggers an emergency all-red halt to protect road users.

■ 1st Place — Zonal | 2nd Place — District | State Participant

Anti-Collision Warning System (ACS)

Arduino • IR Sensors • Relay Module • Real-Time Detection

- Built an IR sensor-based collision avoidance system for hazardous mountain turns and blind spots.
- Implemented relay module switching to trigger real-time visual warning alerts on both sides of a blind curve.
- System detects oncoming vehicles in milliseconds, giving drivers maximum reaction time to avoid collisions.
- Designed and assembled the physical mountain road model with tunnel, terrain, and embedded electronics.

CERTIFICATIONS

Generative AI

Foundational understanding of large language models and generative AI systems.

ACHIEVEMENTS & ACTIVITIES

- Science Model Competition — Zonal Level: **1st Position**
- Science Model Competition — District Level: **2nd Position**
- Science Model Competition — State Level: Participant
- Class Monitor since Grade 7 — demonstrated consistent leadership
- Discipline Captain of school house
- NCC Cadet — trained in discipline, teamwork, and national service
- Organised Science Toon, Science Drama, and Science Fair events
- Anchored school Independence Day event (15th August)