

# AKSHAT MALOO

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## EDUCATION

**B.Tech. in Electrical and computer Engineering**, MIT World Peace University

2023– 2027

**CGPA: 8.06**

Relevant Coursework: Data Structures, Algorithms, Data science

**Certified** in **EV&HEV** via 10-day Bootcamp at iACE, Gandhinagar

**Achievements:-** Top 5 in coding competition

## SKILLS

<b>Languages</b>	Python, C, C++, SQL , Java, Embedded C
<b>Database</b>	MySQL
<b>Embedded &amp; IoT:</b>	ESP32, UART/SPI/I2C
<b>Tools &amp; Framework</b>	Git, python flask(basics),Matlab/Simulink

## PROJECTS

### Smart placement management System

*python flask, MySQL*

- Designed a system to **automate placement activities** such as student registration and company listings.
- Created modules for **student profiles, eligibility tracking, and placement records**.

### Sensor fusion of Autonomous vehicle

*Matlab/Simulink*

- Designed and simulated **multi-sensor fusion algorithms** for object detection and tracking.
- Performed **sensor data integration and validation** in a **Simulink-based virtual environment**.

### Smart Highway Street Light Management System

*Assembly language*

- Designed a system to **automatically control street lights** based on traffic and environmental conditions.
- Implemented **sensor-based lighting** to reduce power consumption and operational cost.

## Mini projects

### Virtual Bookshelf

*C, DSA*

- Book add/search/sort system using Linked List & BST

### Smart Home Monitoring System

*python, ESP32*

- Implemented **real-time monitoring and alert generation** for home safety.
- Designed a **sensor-based security and safety system** to enhance household protection.

### Python Chat App

*python*

- Socket-based two-way chat using threading and Pygame.

## Certificates

- . National Academic Immersion Program (NAIP) 2025 – iACE, Gandhinagar(Attended 5–16 June 2025, completed technical sessions & EV/HEV training)
- . C & Data Structures Certification(Linked List, BST, sorting/searching concepts)