

# MAYUR VAIDYA

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## OBJECTIVE

AI and Cloud Computing enthusiast with hands-on experience in AI-powered IoT and cloud solutions using AWS services including Bedrock, SageMaker, IoT Core, Lambda, and DynamoDB. Skilled in Machine Learning, Deep Learning and real-time data analytics, with a passion for building scalable and intelligent technology solutions.

## EDUCATION

**AISSMS Institute of Information Technology, Pune**

2022 – 2026

*B.Tech in Electrical Engineering | Minor: AI and Data Science - CGPA: 7.2/10*

**12th** – Dr. B. R. Ambedkar Jr. College, Hinganghat | MSBSHSE (2022): 87%

**10th** – Sanskar Dhyanpeeth School, Samudrapur | MSBSHSE (2020): 81%

## PROJECTS

**PowerPulse – Smart Energy Monitoring Platform** | *Node.js, AWS IOT Core, MQTT, MongoDB* | 🌐 | 🌐 2024-26

- Configured **Teltonika TRB245** IoT Gateway for multifunction meter data acquisition via **RS-485/Modbus**, mapping multiple register IDs and enabling **MQTT**-based telemetry transmission to **AWS** cloud infrastructure.
- Designed and developed a cloud-connected IoT architecture using **AWS IoT Core** and **MQTT**, implementing real-time data pipelines with **AWS Lambda, S3, DynamoDB** and AI-powered report generation using **Amazon Bedrock**.
- Achieved **0.8-second latency** with **zero packet loss** while managing cloud infrastructure, system architecture and end-to-end data flow across IoT, database and web layers.

**Computer Vision-Based Face Detection and Recognition System** | *Python, OpenCV, Haar Cascade Classifiers* | 🌐 2023-24

- Developed a computer vision application for real-time face detection and recognition using Python and OpenCV.
- Implemented Haar Cascade classifiers for face and eye detection, enabling accurate facial feature localization in images and video streams.

## SKILLS

**Technical Skills:** AWS (*Bedrock, Sagemaker, IoT Core, EC2, DynamoDB, SNS, Lambda,*), Azure IoT Hub, Linux (Ubuntu Basics), IoT Systems, MQTT, Networking Fundamentals

**Programming Languages:** Python, SQL

**Version Control:** Git, GitHub

**Tools and Platforms:** VS Code, OpenCV, Google Antigravity, Azure IoT Explorer

**Languages:** Marathi, Hindi, English

## CERTIFICATIONS

**AWS Certified AI Practitioner** ( AIF-C01 ) | *Amazon Web Services*

2026

**AWS Academy Cloud Architecting** | *AWS Academy*

2025

**Artificial Intelligence, Machine Learning, Deep Learning and Natural Language Processing** | *IBM*

2024

**Python** | *Geek For Geeks*

## PUBLICATIONS

**Design and Implementation of IoT Based Energy Monitoring System for Smart Energy Meters** | *IEEE ODICON 2026*

- Published in the **2026 4th Odisha International Conference on Electrical Power Engineering, Communication and Computing Technology (ODICON)**, IEEE, Bhubaneswar, India.
- DOI: 10.1109/ODICON66687.2026.11470902
- Authors: Vaidya M., Sonje Y., Bhandari R., Joshi V., Gadgil K., Shelar S.

## INTELLECTUAL PROPERTY

**RouteMind – AI-Based Traffic Light Optimization for Congestion Management**

2024-25

- Registered under Literary Dramatic Works with the Copyright Office, Government of India.

(Registration No.: L-160818/2025)

## LEADERSHIP & ACTIVITIES

**Founding Member (Strategic Head) – VYOMA'25 & Strategic Executive – VYOMA'26**

AISSMS IOIT, 2024-26

*Cross-functional Team Coordination*

- Led the launch** of Zonal-Level Prototype Competition as founding member and later served as Strategic Executive in VYOMA'26, contributing to its expansion into a **National-Level Competition** with **250+ participants across India**.

**Technical Secretary – Antariksha Space Club**

AISSMS IOIT, 2023–Present

*Technical Project Coordination*

- Coordinating propulsion design, documentation, and cross-team communication for experimental **rocket development** and inter-college milestone presentations.