Swayam Anil Kamble

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Portfolio:
https://swayamkamble.github.io/Portfolio/

Objective:

Innovative and results-driven **Industrial IoT engineering student (Third Year)** with a passion for **AI, IoT, and automation**. Seeking opportunities to leverage **IoT, AI, cloud computing, and embedded systems** expertise in solving real-world problems.

Skills:

- **Programming:** C, C++, Python (Intermediate), Arduino

- **IoT & Embedded Systems:** ESP32, ESP-NOW, LoRa, GSM, RFID, MQTT, Google Firebase, ThingSpeak

- **AI & Cloud Technologies:** FastAPI, PostgreSQL, OM2M, Llama 3.2, Llava (Vision AI), Coqui TTS, Ollama

- **Development Tools:** Arduino IDE, VS Code, MIT App Inventor, Grafana, Google Apps Script, Postgresql

- **Communication & Leadership:** Team Collaboration, Project Management, Problem-Solving

Projects:

1. **Smart Lab Automation System (eLSI Hackathon Winning Project)**

- Designed a smart lab automation system that won 1st place in the eLSI Hackathon 2024.
- Integrated AI-based voice control, IoT-based automation, and occupancy detection.
- Used ESP32, MQTT, and FastAPI for seamless connectivity and real-time control.

2. **Smart Street Light Monitoring System (MSME Idea Hackathon 4.0 Winner)**

- Implemented LoRa & GSM for remote monitoring of street lights.
- Designed a dashboard for municipal corporations to monitor energy efficiency.
- Features ambient and scheduled time-based control and alternate pole lighting for energy savings.
- Won Startup Expo at College on Engineers' Day.

3. **Lazzy Smart Plug** *(Bluetooth & Wi-Fi Controlled)*

- Designed a **remote-controlled smart plug** with scheduling & automation.

- Utilized **custom app, Bluetooth, and Wi-Fi** for smart appliance control.

- Enabled **energy-efficient automation** and **timer-based power management**.

Internships & Professional Development

IIIT Hyderabad - Project Intern (SPCRC, Water Lab) (Jun 2024 – Jul 2024)

- Developed an IoT-based Smart Water Level Monitoring System using an ultrasonic node.
- Sent data to ThingSpeak for real-time visualization.

Workshops & Certifications

- Hands-on Internet of Things Workshop - IISER Bhopal (Dec 2023)
- Machine Learning & IoT Workshop - RCOEM Tata Center of Innovation

Extracurricular Activities:

- **Student Coordinator - WiSE Lab** *(IoT & Emerging Tech Projects)*

- **Member - e-Yantra Lab** *(Robotics & Embedded Systems)*

- **Football & Athletics Enthusiast**

Achievements

1st Place - eLSI Hackathon 2024 (Among 520+ eLSI colleges)

Winner - MSME Idea Hackathon 4.0 & Startup Expo (Smart Street Light Project)

Education:

B.Tech in Industrial IoT *(2022 – Present)* St. Vincent Pallotti College of Engineering and Technology

- **First-Year CGPA:** 8.0

Higher Secondary (12th) - 75% *(2022)* St. Paul School & Junior College, Hudkeshwar, Nagpur

Secondary School (10th) - 63% *(2020)* Kurvey's New Model Public School

Certificates and Projects: -

-Certificates and additional projects can be viewed

[Certificate and Projects](https://drive.google.com/drive/folders/1sZgPB0Dc6PXtHJx0bK6dmavTNKS7RD0o?usp=sharing)

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