

# Aishwarya Suryawanshi

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**My Portfolio**

## EDUCATION

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**Government college of engineering and Research Avasari Pune**

Oct2022– May2026

*Bachelor of Engineering In Electronics and Telecommunication–8.98*

**Sri Sant Namdev Maharaj Vidyalay Kandhar**

June2019– May2021

*HSC–87*

**Sri Sharad Pawar Highschool Chitali**

May2019

*SSC–89*

## EXPERIENCE

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**DRDO Internship - Robotics and Humanoid Systems**

(June–2025)

- Intern, working on a humanoid robot project at DRDO.
- Working with experienced researchers and engineers on innovative projects in the field of robotics.
- Developing technical and problem-solving skills in a high-impact research environment.

**Infotact Solutions — Machine Learning & Data Science Internship**

(Mar–Apr 2025)

- Completed hands-on training and project work in machine learning techniques and data science workflows.
- Applied supervised and unsupervised learning methods to real-world datasets.
- Enhanced practical skills in model building, data preprocessing, and performance evaluation.

**NCRA Summer School Program**

(Sep–2024)

- Learned radio astronomy fundamentals, signal processing, and telescope instrumentation
- Gained hands-on experience with telescope systems and astronomical data analysis.

**Team Astrophile**

(July2023–Oct2024)

- Technical Team Member, Designed and tested telemetry and control system circuits for a model rocket.

## PROJECTS

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### Smart Water Management System

Developed a 24/7 IoT-based water monitoring system to track water level, turbidity, and TDS for efficient water resource management.

Designed and integrated an automated valve for smart on-off control, minimizing wastage in real time.

Applicable for smart cities, agriculture, industries, and home automation.

Secured 1st Prize at **I2I** 2025.

### AI Task Manager

Developed an AI-powered task manager that organizes and manages work tasks based on priority.

Designed to simplify complex workflows by automatically analyzing, sorting, and scheduling tasks for better productivity.

Completed during Machine Learning & Data Science internship at Infotact Solutions.

## Water Heater Alert System

Designed a smart real-time monitoring system that prevents overheating by automatically switching off the water heater at a preset temperature.

Continuously tracks water temperature and provides instant alerts to enhance safety and energy efficiency.

Specially designed for hostel students in engineering colleges and implemented hostel rooms; built using DHT11, ESP8266, and Firebase.

## Carbon Capture and Hydrogen Generation System

Designed an innovative system to capture CO and convert it into hydrogen fuel, supporting clean energy solutions. Implemented CO collection methods and formate-based hydrogen production for efficient carbon utilization and sustainable generation.

Published a research paper at the AICTE National Conference 2023.

## TECHNICAL SKILLS

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**Programming Languages:** Python, C++, MATLAB

**Developer Tools :** Google Cloud ( Vertex AI, Gemini AI, AutoML) ,VS Code, Jupyter Notebook , Arduino IDE

**AI/ML Frameworks & Libraries :** TensorFlow ,PyTorch ,Hugging Face ,Scikit-learn , Kaggle

**Data Science & Analytics:** : Pandas, NumPy , Generative AI, Predictive Analysis

**Embedded Systems :** Arduino, Microcontroller (ESP32 ),Sensor Integration ,I2C/SPI Communication

## CERTIFICATIONS

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**IBM:** Artificial Intelligence (Nov 2024)

**Microsoft:** Generative AI

**GUVI IITM:** Learnathon– Generative AI and AI

**Microsoft:** Generative AI

**AICTE:** Research Paper– AICTE National Conference

**GUVI IITM:** Python

## EXTRACURRICULAR ACTIVITIES

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### Competitions:

- Dipex 2024
- Avishkar Competition
- Learnathon
- E-Yantra (IIT Bombay)
- Ignited Innovators of India

## ONLINE PROFILES

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**Email:** aishwaryasuryawanshi2021@gmail.com

**LinkedIn:** Aishwarya Suryawanshi — LinkedIn

**Kaggle:** AA!SHAA1585 — Novice — Kaggle

**Google Cloud:** [https://www.cloudskillsboost.google/public\\_profiles/7a3bd204-da66-4c13-a542-b3f279eef0f3](https://www.cloudskillsboost.google/public_profiles/7a3bd204-da66-4c13-a542-b3f279eef0f3)

**Portfolio:** <https://aaishaa1585.github.io/My-Portfolio/projects.html>

**Github:** AAISHAA1585 (AAiSHAA)