Aishwarya Suryawanshi

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LinkedIn   Medium   MyPortfolio

EDUCATION

Government college of engineering and Research Avasari Pune   Oct2022– May2026
Bachelor of Engineering In Electronics and Telecommunication–7.83

Sri Sant Namdev Maharaj Vidyalay Kandhar   June2019– May2021
HSC–87

Sri Sharad Pawar Highschool Chitali   May2019
SSC–89

EXPERIENCE

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.

PROJECTS

Biped Humanoid Robot – Walking Trajectory & Control (Ongoing at DRDO)

Developing walking trajectory genera on and control algorithms for a biped robot. Focused on gait planning, dynamic balancing, and joint actua on.

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.

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

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

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
Inofotact: Data Scince Machine Learning

Extracurricular Activities

Competitions:

- Dipex 2024

- Avishkar Competition

- Learnathon

- E-Yantra (IIT Bombay)

- Ignited Innovators of India

Online Profiles

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Kaggle: AA!SHAA1585
Google Cloud: Profile
Portfolio: Aishwarya Suryawanshi — Electronics & AI
GitHub: AAISHAA1585 (AAiSHAA)
Medium: MediumBlog