

# Aditya Mallick

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🌐 Portfolio — 🐙 GitHub — 🔗 LinkedIn

## SUMMARY

Third-year B.Tech CSE student specializing in Embedded Systems and Computer Vision using Raspberry Pi. Experienced in building real-time automation systems integrating OpenCV, GPIO, and sensor modules. Strong foundation in Python, Java, and Linux with interest in robotics, IoT, and AI-driven applications.

## SKILLS

### Programming

Python, Java, JavaScript, HTML, CSS

### Web/Backend

Flask, Django

### Systems & Tools

Linux, Bash/Shell, Git, GitHub

### Libraries

NumPy, OpenCV

### IoT/Hardware

Raspberry Pi, GPIO, PiCamera2

### Cloud & AI

OCI (AI Foundations), ML Basics

## EDUCATION

**SOA University, Bhubaneswar** B.Tech in Computer Science and Engineering 2023–2027  
**CGPA: 9.06**

**D.A.V Public School, Unit 8** Class 12 (PCM) 2023  
**88.6%**

**D.A.V Public School, Unit 8** Class 10 2021  
**93.2%**

## PROJECTS

### Web-Controlled Surveillance Robot (Raspberry Pi)

- Built a remote surveillance robot with live video streaming using Raspberry Pi and Camera Module.
- Developed Flask-based web interface for real-time navigation and monitoring.
- Integrated GPIO motor driver control and OpenCV-based video processing.

### Automated Object Sorter using Camera Vision and Load Cell

- Designed dual-parameter sorting system combining shape detection and weight measurement.
- Implemented real-time object detection using OpenCV and PiCamera2.
- Integrated Load Cell with HX711 (24-bit ADC) and calibrated for accurate weight sensing.
- Controlled 6-DOF robotic arm using PCA9685 (I<sup>2</sup>C) for automated pick-and-place sorting.

### Interactive Portfolio Website

- Developed fully responsive portfolio using HTML, CSS, and JavaScript.
- Implemented animations, mobile navigation, and hosted via GitHub Pages.

## CERTIFICATIONS

### Hackathons

- Google Cloud Agentic AI Day — Hackathon Participation (Hack2Skill, 2025)
- Adobe India Hackathon — Round 1 (MCQ + Coding), Adobe & Unstop (2025)

### Cloud Certification

- Oracle Cloud Infrastructure 2025 — AI Foundations Associate (Oct 2025)

### Machine Learning

- Supervised Machine Learning: Regression & Classification (Stanford Online & DeepLearning.AI, 2025)

### Technical Training

- Core Java Training — Lakshya Institute of Technology (Dec 2023)