

# Asmita Paygude

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## Profile

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To work in a dynamic environment that encourages learning and innovation, where I can enhance my skills in emerging technologies like AI, Data Science, and IoT.

Driven Computer Engineering student with strong skills in Python, Django, and web development. Experienced in building data-driven applications, automation projects, and responsive user interfaces. Passionate about clean design, efficient problem-solving, and creating technology that delivers meaningful impact.

## EDUCATION

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### Bachelor of Computer Engineering.

*Sinhgad Institute of Technology, Lonavala*

- 9.5 GPA

## SKILLS

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### Programming Languages

C++, Python

### Web Technologies

HTML, CSS, JavaScript

### Operating Systems

Windows, Linux

### Tools & Frameworks

Git/GitHub, Jupyter Notebook

Strong logical and analytical reasoning

Debugging and troubleshooting

Team collaboration and leadership

Adaptability and quick learning

Time management and multitasking

## PROJECT

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25/03/2023

### Implementation of Personal fitness tracker

- The Personal Fitness Tracker is a Python-based application designed to help users monitor and improve their daily health routines. It allows users to record essential fitness data such as steps taken, calories burned, water intake, workout duration, and sleep patterns. The project makes use of file handling / databases (CSV or SQLite) to store user progress and provides data visualization using libraries like Matplotlib/Pandas for tracking trends over time.
- This project demonstrates the practical application of Python programming, data handling, and visualization techniques, while promoting healthy lifestyle management.

25/04/2013

### Election Result

- The Election Result project is a Python-based application that simulates and manages the process of counting votes in an election. It allows users to input candidate names and votes, store the data, and then calculate the total votes, percentage share, and winner of the election. The project can be implemented using Python data structures (lists, dictionaries) or by using file/database storage for maintaining records.
- It also provides a clear tabular or graphical representation of results using libraries like Pandas and Matplotlib, making it easy to visualize the performance of each candidate.
- This project highlights the use of Python programming, conditional logic, data handling, and visualization in solving real-world problems.

25/04/2014

### Patrolling Robot Navigation System

- The Patrolling Robot Navigation System is a Python-based project designed to simulate and control the autonomous movement of a robot for surveillance and patrolling purposes. The system uses path planning algorithms and sensor-based navigation concepts to allow the robot to move along predefined routes, avoid obstacles, and monitor specific areas.
- It can be implemented using Python with libraries like Pygame/ROS simulation for visualization, or integrated with hardware platforms such as Arduino or Raspberry Pi for real-world robotic control. This project demonstrates the application of Python programming, automation, robotics, and AI-based navigation algorithms in solving real-life security and monitoring challenges.

11/2025

### Music Playlist

Music Playlist Analyzer using Python. A data science assignment where I analyze my playlist with Pandas & Matplotlib—finding average duration, most common genre, and creating visualizations. Includes insights on listening habits and features songs by Shreya Ghoshal.

11/2025

### Simple Calculator

A simple and responsive calculator built using HTML, CSS, and JavaScript. Supports basic arithmetic operations with a clean UI and real-time calculation using DOM manipulation. This project demonstrates core front-end skills including layout design, event handling, and interactive UI development.

12/2025

### My Ecommerce Website

- Built a complete **E-commerce web application** featuring product catalog, search, user authentication, cart, wishlist, and checkout modules.
- Designed a clean and responsive front-end interface ensuring smooth navigation and user experience across devices.
- Implemented a secure **Django backend** with database models for products, users, orders, and admin-side inventory management.
- Integrated essential functionalities like order placement, quantity updates, and dynamic pricing with proper validations.

12/2025

### To-Do-List App

- Built a **web-based To-Do List app** using HTML, CSS, and JavaScript.
- Added features for **task creation, deletion, and marking as completed** with **persistent storage**.
- Designed a **clean and responsive interface** for smooth user experience.

12/2025

### Connect-Four Game

- Developed a **Connect Four web game** using HTML, CSS, and JavaScript.
- Implemented **interactive gameplay, turn-based logic, and win condition detection** (horizontal, vertical, diagonal).
- Designed a **responsive and user-friendly interface** for an engaging gaming experience.