Santosh Rathod

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Education

Pimpri Chinchwad College of Engineering, Pune **Nov 2022 – June 2026**
B.Tech in Information Technology *64.31%*

Secondary and Higher Secondary School, Talwada **2021 – 2022**
HSC - Science *82.67%*

Secondary and Higher Secondary School, Talwada **2019 – 2020**
SSC *92.40%*

Skills

Programming Languages: C, C++
Core Concepts: Data Structures & Algorithms, Object-Oriented Programming System (OOPS), DBMS
Web Technologies: HTML, CSS, JavaScript, Node.js
Databases: MySQL, MongoDB
Tools & Platforms: Git, GitHub
Data Science & ML: Data Science, Machine Learning

Projects

Food Donation and Waste Management System [GitHub] Nov 2024 – Dec 2024

Technologies: HTML, CSS, JavaScript, Node.js, Express.js, MongoDB

- Developed a **full-stack web platform** to minimize food waste and support underprivileged communities by connecting donors, NGOs, and delivery partners.
- Designed and implemented **role-based authentication** and secured **RESTful APIs** for food listing, request management, and delivery workflows.
- Built a **scalable backend with MongoDB** ensuring efficient data handling, and developed a **responsive UI** for seamless user interaction across devices.

Iris Liveness Detection for Biometric Security [GitHub] May 2025 – June 2025

Python OpenCV, LBP Feature Extraction, SVM Classifier

- Built a **biometric security system** to distinguish real vs spoofed iris images, enhancing authentication reliability.
- Applied **image preprocessing with OpenCV** and extracted **Local Binary Patterns (LBP)** features to improve robustness.
- Trained and evaluated an **SVM classifier**, achieving **90%+ accuracy** in detecting spoof attacks.

Smart Parking System [GitHub] July 2025 – Aug 2025

Technologies: Python, A Algorithm, Tkinter, Heapq, Math, File I/O*

- Designed an **intelligent parking system** using the **A* algorithm** to compute the shortest path to the nearest available slot, improving parking efficiency.
- Implemented a **real-time Tkinter GUI simulation** automating car entry, parking allocation, and exit workflows.
- Enabled **parking space customization and path visualization**, enhancing usability and system management.

Achievements

- Solved 300+ DSA problems on LeetCode.
- Awarded First Prize at Innoveda (Department-level Research Paper Conference) — PCCOE.

Internships & Certifications

- **AI & Machine Learning Virtual Internship — AICTE** Apr 2025 – June 2025
- **Data Structures & Algorithms using C and C++ — Udemy** Feb 2025
- **Data Science, AI, and Machine Learning with Python — Udemy** June 2025