

Rajas Bhosale

Pune | rajasvbhosale@gmail.com | +91-8080498171 | LinkedIn | GitHub | LeetCode

Personal Summary

Aspiring software developer in AI, ML, and full-stack development, eager to contribute in dynamic environments.

Education

Bachelor of Technology, Vishwakarma Institute of Technology, Pune

Expected 2026

- Artificial Intelligence and Data science

CGPA: 8.56

Diploma in Programming and Data Science, Indian Institute of Technology, Madras

Expected 2025

- Data Science and Programming

CGPA: 5.56

Experience

AI Software Development Intern, EduPlusCampus

Jun 2024 - Dec 2024

- Developed an AI-powered lesson planning system using GoToCR (OCR) and NLP to extract and structure syllabus content from scanned images.
- Implemented dynamic scheduling logic based on chapter weightage, holidays, and weekends for personalized academic plans.
- Built a customizable interface enabling educators to review and modify AI-generated plans efficiently.

AIML Co-Head, GedIT, VIT Pune

June 2024 - Present

- Leading a team that organizes seminars, workshops, hackathons, and research-driven activities to enhance student skills. Focused on fostering career growth and technical excellence within the club and college community.

Skills

Languages & Frameworks: Python, Java, Nodejs, Spring Boot, ReactJS, Flask

Technologies & Tools: AI and Machine Learning Development, Full Stack Web Development, SQL, React, JavaScript, Postman

Architecture & Concepts: Deep Learning, OOP, Data Structures and Algorithms, Problem Solving

Projects

AI-Powered Learning Management System

GitHub Link

- Built an AI-powered College ERP System to automate academic workflows and enhance student-teacher interaction.
- Integrated voice-cloned Viva, AI-driven assessments with plagiarism detection, and real-time project collaboration.
- Enabled quiz generation from PDFs and personalized learning using NLP and Retrieval-Augmented Generation (RAG).
- Utilized RAG with LLMs, ChromaDB for semantic retrieval, Flask for backend APIs, and React for an frontend interface.

Vanguard

Github Link

- Developed an autonomous robot using ESP32 and ArUco markers for path mapping and line following in a controlled environment.
- Implemented image classification with OpenCV and a custom ML model to detect five key classes.
- Applied Dijkstra's algorithm for shortest path navigation, enabling the robot to trigger alerts based on classified inputs.
- Contributed to image processing, classification pipeline, and path planning logic using Python and graph-based algorithms.

Achievements

Amazon ML Challenge 2024 -Team Rank 416 out of total 73K participants.

Built an ML pipeline for product attribute extraction from images using EasyOCR, regex, and text normalization. Processed 119K/130K images with GPU-accelerated batch processing.

Quasar 3.0 2025 – Track Winner among 650 Teams

Developed an LMS with context-aware assignment assessments using RAG, AI-driven feedback, voice-cloned viva.

HackXplore 2025 – Team Rank 2nd out of total 450 teams.

Added 3D Virtual Classroom with real-time student tracking, screen sharing, and audio conferencing to the Existing AI-Powered LMS.

Publications and Certifications

Vanguard - Patent

November 2024

Real Time Energy Monitoring System - Patent

April 2024

Amazon Cloud Technology Consultant (Coursera) - View Certificate

Nvidia Fundamentals of Deep Learning - View Certificate

IIT Madras Foundational - View Certificate