

ADITYA WAGHAMARE

Pune, Maharashtra – 412101

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Education

Pimpri Chinchwad College of Engineering & Research, Ravet

2022 – 2026

Bachelor of Engineering in Information Technology

Pune, India

CGPA: 8.8/10

Technical Skills

Languages: C++, Python, JavaScript, SQL, HTML/CSS

AI/ML Frameworks: PyTorch, TensorFlow, Keras, Scikit-learn, HuggingFace Transformers, LangChain, Streamlit

AI/ML Libraries: MediaPipe, OpenCV, NumPy, Pandas

Web Frameworks & Tools: React.js, FastAPI, Node.js, Bootstrap

Developer Tools: VS Code, Git, Postman, GitHub actions, Railway

Database: MySQL

Operating Systems: Linux (CLI, File System), Windows

Concepts: Data Structures & Algorithms, OOP, DBMS, Operating Systems, Model Training & Evaluation, Data

Preprocessing & Feature Engineering, NLP, Computer Vision, Prompt Engineering, RAG Pipelines, Model Deployment

Projects

UNMUTE.AI | *Python, PyTorch, OpenCV, MediaPipe, Scikit-learn, NumPy, Pandas* | [GitHub](#) **Mar 2026 – May 2026**

- Developed and deployed a real-time computer vision pipeline achieving 97–100% gesture recognition accuracy using 21-point 3D MediaPipe hand landmarks and a trained RandomForestClassifier model.
- Built an end-to-end ML training pipeline processing 5,000+ frames from mixed image and video datasets, applying wrist-centered 3D normalization for feature engineering, reducing noise by 30%.
- Optimized model inference with parallel processing for 25–30 FPS real-time webcam prediction, integrating FPS/accuracy display and mirror-corrected tracking for a seamless, production-ready interface.

ADHYAYAN | *JavaScript, FastAPI, Bootstrap, OpenAI API* | [Live Dashboard](#) **Oct 2025 – Dec 2025**

- Built and deployed a personalized learning platform with FastAPI hosted on Railway and frontend deployed on Vercel, implementing RESTful APIs for domain selection, personality analysis, and prerequisite testing with a modular, microservices-inspired architecture.
- Integrated the OpenAI GPT API with prompt engineering techniques to power an academic chatbot, reducing query resolution time by 60% through optimized LLM response pipelines.
- Designed adaptive learning roadmaps using custom profiling algorithms and user data, enabling personalized content delivery through data-driven recommendations.

Experience

YooBee Tech LLP

Oct 2024 – Jan 2025

Full Stack Development Intern

- Built and deployed the company website including 2 responsive landing pages using React.js and JavaScript, improving deployment build time through optimized component architecture.
- Leveraged AI-assisted workflows and data-driven UX decisions to design end-to-end user flows and wireframes, translating business requirements into clear technical architecture documentation.
- Collaborated on full-stack system design covering RESTful API integration, frontend structure, and backend logic, contributing to scalable and maintainable web solutions.

Achievements & Certifications

- Achieved **5-star ratings in C++, Python, and SQL on HackerRank**, demonstrating strong problem-solving ability, coding proficiency, and expert database querying skills.
- Finalist in **5+ National-Level Hackathons**, including Navonmesh 2.0 and The Great Ninja Hack Hackathon.
- Intermediate JavaScript Certification** – HackerRank (July 2025) – [View Credential](#)

Leadership

- Organizer, Inceptia Hackathon** *April 2025 – July 2025*
Spearheaded the planning and execution of a national-level hackathon with **500+ participants** and **30 competing teams**, managing sponsor outreach, logistics, and cross-team coordination.
- Treasurer, ITSA (Information Technology Students' Association)** *Aug 2023 – July 2025*
Oversaw budget allocation and procurement across multiple technical events including ERROR404 and SOLVEX, driving cost-effective execution and resource planning for department-wide initiatives.