

Atharva Palve

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Profile

Motivated third-year IT student at Fr. C. Rodrigues Institute of Technology with hands-on experience in full-stack web development and applied machine learning. Skilled in building scalable web apps and deploying ML models to solve real-world problems. Strong foundation in Python, JavaScript, and the MERN stack. Excited to contribute to dynamic teams and create innovative tech at the intersection of software and AI.

Education

Fr. C. Rodrigues Institute of Technology Information Technology CGPI - 8.45	2024 – 2027 Vashi, India
DAV Public School, Nerul 10th, 12th 10th SSC - 96% 12th HSC - 84%	2011 – 2023 Nerul, India

Skills

Languages	Web	Tools	Database
Python, C++, Java, JavaScript, C, C#	HTML, CSS, Node.js, MongoDB, React	Git, Express	MySQL

Professional Experience

ArmsRobotics <i>IoT & Machine Learning Intern</i> <ul style="list-style-type: none">Developed a responsive web platform connected to custom PCB hardware, enabling real-time interaction with latency under 300ms.Contributed to ML-based automation systems deployed at Reliance Refineries and Vantara Wildlife Centre, powering 5+ active field devices.Tuned embedded firmware and assisted in circuit-level debugging, boosting system stability by 40% during integration.Implemented a compact ML model achieving 90%+ classification accuracy on live data inputs in field trials.	June 2025 – July 2025
Vanillakart <i>Full Stack/Digital Marketing Intern</i> <ul style="list-style-type: none">Designed and delivered frontend and backend features for 3+ client simulation projects, using HTML, CSS, JavaScript, Node.js, and MongoDB.Collaborated with a cross-functional team of 10+ interns during intensive web development and digital marketing bootcamps.Improved deployment pipeline efficiency by 25% through automation of build and versioning processes using Git.	May 2024 – May 2025

- Participated in agile sprints and code reviews, submitting **20+ pull requests** and ensuring delivery of mobile-responsive, accessible interfaces.

Projects

Multi-Agent System Encryption

Ongoing, in collaboration with IIT Dharwad

- Designing a hybrid encryption model combining **masking and homomorphic encryption** for agent-level secure communication.
- Built simulations with **100+ message transactions** to test encrypted multi-agent interactions with minimal latency.
- Aims to improve decision privacy and data integrity in cooperative AI environments.

WaveHabitat

Smart Embedded Control System – Web, Embedded, ML

- Designed and launched a control dashboard handling real-time communication with **5+ field-connected devices** via custom PCB.
- Embedded a machine learning model that achieved over **90% prediction accuracy** on real-time input signals.
- Reduced signal transmission delays by **40%** using protocol-level optimization and backend tuning.
- Deployed as part of a large-scale industrial use case at Reliance and Vantara.

Cafe Management System

Using MERN Stack

- Engineered a full-stack web application that processed **50+ mock orders/day**, streamlining cafe operations.
- Implemented user login, wallet payments, cart handling, and inventory control, reducing manual admin effort by **30%**.
- Utilized React, MongoDB, Express, and Node.js to deliver a responsive and mobile-friendly interface.

Certificates

What Is Generative AI?

Certified by LinkedIn Learning – Learned about LLMs, prompt engineering, and transformer models.

Investor Certification Examination

Exam conducted by Securities and Exchanged Board of India and National Institute of Securities Markets

Extracurricular Activites

Cultural College Event

August 2024

Football Team Member:

Contributed to the department's winning team during the cultural college event (August 2024).