

Atharva Shinde

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Education

Vishwakarma Institute of Technology, Pune

Bachelor of Technology in Artificial Intelligence and Data Science (CGPA: 8.55)

2021 - May 2025

Pune, Maharashtra, India

Raosaheb Rupchand Junior College, Jalgaon

2020 - 2021

HSC (86.83)

Jalgaon, Maharashtra, India

St. Joseph's Convent Sr. Sec. School, Jalgaon

2018 - 2019

CBSE (91.4)

Jalgaon, Maharashtra, India

Projects

Geo Guide | Python, Tensorflow, OpenCV, YOLOv8 ESP32, QGIS

- Led the development of "**Vanguard**," an autonomous robotic vehicle, in a team of 4 members, as part of eYRC 2023-24 themed "GeoGuide."
- Developed Vanguard by applying machine learning techniques. Fine-tuned VGG16 on a custom dataset of **1200+** images for multiclass image classification.
- Utilized object detection using YOLOv8 for dynamic decision-making in Vanguard, with an accuracy of **88.5 %**, optimizing navigation through Shortest Path Algorithms and geospatial analysis in a war-torn arena

Dynamic Load Balancer for Distributed Systems — Java, Load Balancers, Distributed Systems

- Built a Java-based distributed image processing system with **client-server architecture** using Sockets, simulating task distribution, and load balancing for resource efficiency.
- Implemented Round Robin load balancing algorithm to **optimize resource utilization** across simulated clients.
- Reduced the resources on the main server approximately by **66.67%** by simulating **3 clients** for each server for respective tasks.

Blockchain Based Virtual Real Estate Marketplace Platform — Solidity, Ethereum, React, Hardhat, Metamask

- Led a 5-member team to develop a blockchain-based virtual real estate marketplace, resulting in a **20% increase in platform usability**.
- Implemented smart contracts using Solidity, achieving **88% accuracy in transaction execution** on the **Ethereum** blockchain.
- Integrated Metamask for wallet interaction, **reducing transaction processing time by 30%**.

Technical Skills

Languages: C, C++, Python, Java, HTML/CSS, Javascript, SQL, Embedded C

Technologies: Numpy, Pandas, scikit-learn, Django, Flask, TensorFlow, Open-CV, PyTorch, LLM, NLP, Github

Achievements

- Secured **3rd position out of 50+ teams** in ML Olympiad - Kaggle Competition
- Advanced to the **Pre-Final round for worldwide Eyantra'23** in the Geo-Guide Theme

Conferences & Research Work

- Patent Published** for Anti-Theft Alarm System, (2023)
- Research Paper** published on "Horse Race Prediction Using Machine Learning Algorithms" in Springer, (2023) (Scopus-Indexed)
- Best Paper Award** at "Industry 4.0 - Nascent Technologies and Sustainability for 'Make in India' Initiative" - SPICON (2022)

Position of Responsibility

AI/ML Secretary | Computer Society of India, VIT Pune

May 2023

- Led AI/ML Team for various events as **Workshops, Hackathons, Projects** etc.
- Achieved **200% growth** of the domain compared to previous year.