Aditya Garud

AI Engineer | Machine Learning | Open Source | Python Programming

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SUMMARY

I am a Third-year B.Tech Computer Engineering student specializing in AI/ML, computer vision, and distributed systems, with hands- on experience in real-time sensor integration, consensus neural networks and scalable system design. Proven ability to build end-to-end projects such as YODHA (low-light image recognition model), Automated Traffic Management System (Computer Vision), and gesture-based virtual mouse control. Skilled in Python, TypeScript, and Rust, with strong foundations in deep learning, computer vision, and async programming. Seeking opportunities to apply technical expertise in AI-driven systems and infrastructure engineering.

KEY ACHIEVEMENTS

Discord Bot Automations

Designed and deployed intelligent Discord bots to automate server management, content moderation, and user engagement. Extended functionality with integrations (APIs, databases, and cloud storage) to support analytics and automation workflows.

Automated Traffic Management System (ATMS)

Automated traffic management system reduced congestion by 20% utilizing Machine Learning for traffic prediction.

Live Code Review MCP

Built a multi-language (TypeScript & Python) AI-powered live code review system with MCP integration, delivering real-time static analysis and enterprise-grade feedback pipelines.

Async Distributed Pipeline in Rust

Developed a low-latency, fault-tolerant Rust system for distributed data flows, ensuring high concurrency and scalable task execution across nodes.

EXPERIENCE

Intern – VSS

Vardhan Software Solutions (VSS)   01/2025 - 06/2025

- Completed internship at VSS (Jan–Jun 2025), where I automated documentation workflows and built a Python-based video processing pipeline for scalable chapter generation.

Technical Team Member

TekLingo Club   Vishwakarma University
Technical Team Member   2024 - Present

- Led and supported AI/ML projects involving neural networks, RAG pipelines, and decision tree models.
- Collaborated across teams to design and integrate machine learning solutions, enhancing system intelligence and scalability.

EDUCATION

Computer Engineering Junior (B.Tech)   Pune, Maharashtra

Vishwakarma University   07/2023 - Present

STRENGTHS

Technical Skills

Skilled in Python, Rust, TypeScript (frontend and backend) , Go, C++, Java.

PROJECTS

Automated Traffic Management System (ATMS)   02/2024 - Present

- Developed an intelligent traffic signal system with real-time vehicle classification and adaptive signal timing to optimize traffic flow efficiency.

Discord Bot Development   01/2022 - Present

- Developed and managed Discord bots to automate user engagement, moderation, and custom commands

Stock Management Using LSTM   07/2023 - 08/2023

- Developed and trained an LSTM-based deep learning model to forecast stock price movements and optimize inventory management using historical time-series data.

Embedded Systems For Various Automations

- Designed and deployed automation solutions using Raspberry Pi, Jetson Nano, ESP32, and Arduino. Focused on building efficient, low-power, and scalable embedded pipelines integrating Hybrid Models of AI/ML & IoT