

# Vipul Patil

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## Objective

Enthusiastic IT student with foundational knowledge of Java, MySQL, DevOps, and Web Development. Currently working as an AI/ML intern and seeking entry-level opportunities to learn modern technologies while contributing to real-world projects.

## Skills

**Languages:** Java, Python, JavaScript, HTML, CSS, Shell Scripting

**Technologies & Tools:** React.js, FastAPI, Docker, GitHub, AWS

**Databases:** MySQL, MongoDB

## Education

**Datta Meghe College of Engineering, Airoli**

B.E. in Information Technology

2022 – 2026

**CGPA: 7.89/10**

**Upadhye College of Science, Nashik**

Higher Secondary Education

2022

**Percentage: 84.83%**

## Work Experience

**ACPL Cargo Pvt. Ltd**

*AI/ML Intern*

Jan 2026 – Present

- Created and managed labeled datasets using LabelImg to improve object detection accuracy
- Trained YOLO-based object detection models on custom datasets for POD (Proof of Delivery) document verification
- Developed an internal Ask HR chatbot using open-source Hugging Face LLM models to enable faster access to HR documents, policies, and information
- Designed chatbot workflows to reduce manual effort and improve information retrieval efficiency

## Projects

**DebateArena – AI-Powered Real-Time Video Debate Platform** | *WebRTC, React.js, Firebase, Docker, AI*

[GitHub]

- Built a real-time peer-to-peer video debate platform with live transcription and AI-based fact checking
- Implemented low-latency video streaming using WebRTC with real-time data synchronization via Firebase
- Integrated speech recognition and AI-based analysis to verify statements during debates
- Designed a responsive UI and Dockerized the application to ensure consistent deployment

**Decentralized Land Registry System** | *Blockchain, Ethereum, IPFS, MERN Stack, MetaMask, Ganache*

[GitHub]

- Built a blockchain-based land registry platform to verify property ownership using NFTs on the Ethereum network
- Implemented decentralized document storage using IPFS with hash-based verification to ensure data integrity
- Integrated MetaMask wallet authentication for secure peer-to-peer buyer and seller transactions via smart contracts
- Developed a full-stack MERN application and used Ganache for local blockchain testing and deployment

**Medical Store Management System** | *Java, MySQL*

[GitHub]

- Developed a desktop-based application to manage inventory, billing, and daily medical store operations
- Implemented medicine expiry-date tracking with automated alerts to reduce stock losses
- Designed a normalized MySQL database schema for efficient storage and fast data retrieval
- Built reporting modules for sales analytics, stock monitoring, and purchase history

## Achievements & Extracurricular Activities

- **Runner-up at Hackhive 2025 Hackathon** : Built an AI Research Assistant for fast and accurate understanding of research papers using RAG with Supabase pgvector embeddings and GenAI. Enabled semantic search across multiple papers with context-aware answers and voice-based queries using Python Flask.
- **Video Editing Competition Winner**: Secured first place twice in college-level video editing competitions for creative storytelling and editing skills.
- **Member of Tech GITS – Technical Committee**: Active member of the college technical committee, contributing to the organization of workshops on emerging technologies.