

Vipul Patil

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Objective

Enthusiastic IT student with foundational knowledge of Java, MySQL, DevOps concepts, and web development. Eager to learn modern technologies, work on real world projects, and contribute effectively to a development team.

Education

Bachelor of Engineering in Information Technology (B.E.)

Datta Meghe College of Engineering, Airoli

2022 – 2026

CGPA: 7.89 (Till Semester 7)

Higher Secondary (State Board)

Upadhye College of Science, Nashik

2022

Percentage: 84.83%

Class 10th, CBSE

Dr Ulhas Patil English Medium School

2020

Percentage: 89.2%

Technical Skills

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

Frameworks & Backend: Flask, Express.js, React.js, Node.js

Databases: MySQL, MongoDB

Cloud, & Tools: AWS, Docker, Jenkins, Git, GitHub, Postman

Projects

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

- Developed a peer-to-peer video debate platform with live transcription and AI-based fact checking using speech recognition APIs
- Implemented real-time speech analysis engine to display verified statements during debates with accuracy metrics
- Integrated WebRTC for low-latency video streaming and Firebase for real-time database synchronization across users
- Dockerized the full-stack application to ensure consistent deployment across development and production environments
- Designed responsive UI with React.js supporting multiple debate formats and user authentication

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

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

Job Portal Website | *MERN Stack, Machine Learning* [GitHub]

- Designed a full-stack job portal with separate dashboards for job seekers and employers using MERN stack
- Integrated Random Forest ML model achieving 85% accuracy to recommend personalized jobs based on user profile
- Developed an employee ranking module to help employers compare and prioritize candidates based on performance data
- Implemented advanced job filtering by location, salary range, and experience level with real-time notifications via WebSockets and email alerts using SMTP
- Built RESTful APIs using Express.js and MongoDB for efficient data management and user authentication with JWT

Medical Store Management System | *Java, MySQL* [GitHub]

- Developed a desktop application for inventory management, billing, and daily store operations using Java Swing
- Implemented expiry tracking system with automated email alerts for medicines nearing expiration dates
- Designed normalized MySQL database schema for efficient storage and retrieval of medicine and transaction records
- Created comprehensive reporting module for sales analytics and inventory status with export functionality

Achievements

Runner-up at Hackhive 2025 Hackathon [GitHub]

- Enabled fast and accurate understanding of research papers by building an AI Research Assistant that delivers context-aware answers using RAG with Supabase pgvector embeddings and GenAI
- Enhanced research analysis by allowing comparison of multiple papers using semantic search across indexed documents with voice-based queries made with python flask

Video Editing Competition Winner

- Won first place in college video editing competitions on two occasions for creative storytelling skills

Extracurricular Activities

Member of Tech GITS – Technical Committee

- Active member of college technical committee organizing workshops on emerging technologies