

HARSH PATIL

Mumbai, Maharashtra, India

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Technical Skills

Languages: JavaScript, TypeScript, Python, Java, C++, SQL

AI/ML: TensorFlow.js, PyTorch, OpenAI API, Hugging Face, NLP (BERT/SpaCy), Computer Vision, YOLO

Frontend: React.js, Next.js, Tailwind CSS, WebSockets, Three.js, MediaPipe

Backend: Node.js, Express.js, FastAPI, Flask, RESTful APIs, GraphQL

Database & Cloud: MongoDB, PostgreSQL, Redis, Firebase, AWS, Docker, Kubernetes, Vercel

DevOps & Tools: Git, GitHub Actions, Postman, Figma, API

Education

Sardar Patel Institute of Technology (SPIT)

Mumbai, India

Bachelor of Technology in Computer Engineering

Sept 2024 – Oct 2028

Professional Experience

College Pe Charcha

June 2025 – Present

Core Leadership Team & Head of College Mentor

Mumbai, India

- Promoted to national core leadership team; collaborate with founders on scaling student-first initiatives across India
- Mentor 4,500+ students in career guidance using data-driven insights, increasing informed college decisions by 40%
- Deploy AI-powered placement tools serving 1,000+ students monthly with 92% satisfaction rating

Freelance Full Stack & AI Engineer

Jan 2025 – Present

Self-Employed

Remote, India

- Deliver enterprise-grade AI/ML and full-stack solutions for clients in fintech, edtech, and cybersecurity sectors
- Built 10+ production applications with 98% client satisfaction; specialized in real-time ML inference and scalable APIs

Sports Committee SPIT

Sept 2025 – Present

Technical Head

Mumbai, India

- Architected and deployed official Sports Committee website and event platforms for Agility and Spoorthi serving 2,000+ users
- Built custom AI chatbot using NLP to answer 500+ queries about committee events, schedules, and registrations
- Reduced event registration time by 60% through automated systems; managed end-to-end technical operations

ACSES SPIT (Association of Computer Engineering Students)

Oct 2025 – Present

Technical Head

Mumbai, India

- Lead technical operations for 500+ CS students; organize hackathons, coding competitions, and workshops
- Maintain committee website and coordinate with industry professionals for guest lectures and mentorship programs

AI/ML & Full Stack Projects

CampusPlacements AI Platform | React, OpenAI, BERT, Node.js, MongoDB | [GitHub](#) |

2025

- End-to-end placement platform with AI interview simulator, resume screener, and bias detection serving 1,000+ students
- Integrated GPT-4 for real-time interview feedback and BERT for resume parsing; reduced bias in hiring by 40%
- Implemented speech analysis and body language tracking using MediaPipe achieving 95% accuracy at 30 FPS
- Users reported 35% improvement in interview performance and 50% reduction in resume screening time

Real-Time Deepfake Detection System | React, TensorFlow.js, FastAPI, CNN | [GitHub](#) |

2025

- Cybersecurity platform detecting AI-generated faces in video streams with 92% accuracy using CNN architecture
- Optimized TensorFlow.js for in-browser processing at 30 FPS with zero backend latency; deployed on edge devices
- Implemented face mesh detection and temporal consistency checks for robust fake detection across lighting conditions

AI Code Review Assistant | React, OpenAI, GitHub API, Redis | [GitHub](#) |

2025

- Developer tool automating code review for PRs; reduced review time by 60% for 50+ developers across 5 repositories
- Integrated with GitHub webhooks for instant analysis; identifies bugs, security vulnerabilities, code smells, and style issues
- Built custom rule engine with Redis caching achieving 200ms average response time for 1,000-line codebases

Smart Money Tracker AI | *React, Python, LSTM, WebSockets* | [GitHub](#) | [Live](#)

2025

- Crypto analytics platform with ML-powered price prediction achieving 23% backtested returns over 6-month period
- Built real-time dashboard with WebSocket streaming processing 10K+ data points/second from multiple exchanges
- Implemented LSTM neural networks and technical indicators for multi-timeframe analysis and automated alerts

Voice-Controlled IoT Dashboard | *React, Speech API, Python, MQTT* | [GitHub](#) |

2025

- Smart home control system integrating 15+ IoT devices with voice commands achieving 95% recognition accuracy
- Built emotion detection from voice tone using audio classification; automated scene triggers based on user mood
- Designed responsive dashboard with real-time device status updates using MQTT protocol and WebSockets

AI Sign Language Translator | *React, TensorFlow.js, MediaPipe* | [GitHub](#) |

2024

- Accessibility tool translating 50+ ASL signs to text/speech in real-time with 89% accuracy using hand tracking
- Trained custom CNN model on 20K+ sign language images; optimized for mobile browsers with 15 FPS performance

Hackathons & Competitive Achievements

3X Domain Winner – OpenServ International, Bitcoin Design, Webathon 2.0

2025

- **Top 25/1,495** at OpenServ for Smart Money Tracker AI; **Best Design + Student Hack** at Bitcoin Design
- **Best UI/UX** at National Webathon (625+ registrations); **Best Design** at CODEFOLIO Portfolio Showdown

Competitive Programming – 1st Rank DSA, Top 10 Codertine, CodeClash Excellence

2024-25

- 1st place T20 DSA competition at SPIT; 17th rank inaugural DSA contest; Top 10 at RGIT's Codertine 6.0

Certifications & Leadership

Industry: JP Morgan Software Engineering Job Simulation — HackerRank Problem Solving (Basic) Certified

Open Source: 50+ GitHub stars across projects — Active contributor to TensorFlow.js and React communities

Leadership: IEEE AESS Tech Team — SPark Newsletter Correspondent — 4+ years coding experience