

Harsh Jain

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EDUCATION

SVKM's NMIMS University MPTP Shirpur Campus

Bachelor of Technology in Computer Engineering; CGPA: 7.65

Shirpur, Maharashtra

August 2022 - August 2026

EXPERIENCE

Tactical Response Automation Pvt. Ltd.

Software Development Engineer Intern

Gurugram, Haryana

May 2025 - August 2025

- Developed autonomous UAV software using Python automation integrated with QGroundControl.
- Trained a deep learning model with 90%+ accuracy for real-time autonomous object detection.
- Customized QGroundControl (Qt/QML) and validated real-time telemetry with automated checks.

Megha AI Pvt. Ltd.

Data Science Intern

Hyderabad, Telangana

Jan 2026 - April 2026

- Built autonomous scraping engine using Python, Playwright & OpenAI Vision across 10+ portals.
- Engineered LLM pipeline converting 100+ tender PDFs to structured JSON with Bid/No-Bid scoring.
- Architected FastAPI backend with vectorized semantic search, cutting discovery time by 70%.

PROJECTS

NEURO PILOT: AI-Powered ML Workflow Automation

- Automated ML pipeline with Groq LLMs, cutting setup time from 3 days to 2 hours (60% less preprocessing).
- Integrated PandasAI + Kaggle API for auto dataset retrieval, accelerating kickoff by 40%.
- Built Django + Next.js platform for natural-language ML, reducing data science dependency by 50%.

Event Management System (EMS)

- Built role-based approval workflow, cutting cycle from 5 days to 24 hours (80% less emails).
- Developed React live scheduling interface, boosting productivity 45% and reducing conflicts 60%.
- Achieved 70% higher mobile engagement via Tailwind responsive design on secure infrastructure.

ISL Sign Language Detection System

- Built ISL recognition model with 92% accuracy and sub-200ms latency for real-time communication.
- Engineered pipeline for 10K+ samples, reducing training time 40% via modular scripts.
- Deployed inference system with gesture-to-text/audio for accessible communication.

TECHNICAL SKILLS

Languages: Python, JavaScript, TypeScript, SQL, HTML, CSS

Backend: Node.js, Express.js, Django, REST APIs, FastAPI

Frontend: React.js, Next.js, Tailwind CSS, Redux

Databases: MySQL, PostgreSQL, SQLite, Supabase

Machine Learning & AI: PyTorch, OpenCV, Ultralytics, Scikit-learn, PandasAI, Groq API, Gemini API, LLMs, NLP, Semantic Learning, Playwright, Langchain

Embedded & Robotics: Raspberry Pi, Jetson Nano, MAVLink, DroneKit, Mission Planner

Tools & Frameworks: Git, Docker, Linux (Ubuntu, Raspberry Pi OS), Bash Scripting, Streamlit, Excel

ACHIEVEMENTS AND CERTIFICATIONS

Technical Lead - UAS NMIMS

2023 - 2025

- Led UAV software development achieving 4 national competition wins including 2nd Runner-Up at IIT Bombay Techfest 2023.

Competition Achievements: 2nd Runner-Up at Godrej Drone-Log (IIT Bombay Techfest 2023), Top 7th in IoT Innovation Challenge (IIT Bombay 2023), 3rd Position in UAV Autonomous Flight Competition (NMIMS 2025), 3rd Position in "Carry the Consignment" UAV Challenge (SVNIT Surat 2025).

Certifications: Machine Learning (NPTEL 2025), Amazon Web Services (AWS) Cloud (2025), AI Essentials (Google 2024), Cybersecurity (Google 2024), Java & CSS Programming (HackerRank 2023).