Suryaansh Sharma

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Education

St. Xavier's Sr. Sec School, Jaipur	Jan 2010 – Jun 2020
Hari Om Public School (RBSE)	Jul 2020 – Aug 2022
B.Tech in Computer Science – JK Lakshmipat University, Jaipur	Jul 2023 – Present

Technical Skills

Programming: C, C++, Python, JavaScript, Rust (learning), Bash
Web: Next.js, Node.js, Express.js, Django, Flask, FastAPI
Databases: MySQL, PostgreSQL, MongoDB
AI/ML: Scikit-learn, Numpy, Pandas, PCA, CNN, YOLO, LangChain, LangGraph, RAG, LSTM, Attention
Robotics/IoT: Raspberry Pi, MQTT, Computer Vision, Face Recognition, 17-DOF Humanoid Robot
DevOps: Git, Docker, Linux, Selenium, BeautifulSoup4, Web Scraping
Soft Skills: Problem Solving, Mentorship, Adaptability, Team Collaboration

Experience & Activities

- **AI Intern – Racketail Solutions Pvt. Ltd.** May 2025 – Jul 2025 - Built ML models for stress/anxiety detection from biosignals. - Developed PPE detection, speed detection, and anomaly detection systems.

- **Robotics Intern – UV Patel College of Engineering** Jun 2025
  - Contributed to **GUNI Robot Project**: Admin panel, MQTT server, LLM + LangChain + LangGraph integration, CompreFace-based face recognition.

- **Freelance Web Developer** Ongoing - Delivered full-stack applications with Next.js, Node.js, Express.js, MongoDB. - Built responsive and scalable portfolio websites for clients.

- **Teaching Assistant – Python & NPTEL Workshop** Aug 2024 – Dec 2024 - Assisted students with Python programming fundamentals. - Conducted hands-on sessions for NPTEL workshops.

- **Co-Chair – Competitive Programming Club, JKLU** - Mentored peers in DSA and algorithms, organized coding contests.

- **AI Vicharana Shala, IIT Ropar** - Completed bootcamp on Computer Vision, NLP, and Reinforcement Learning.

- **ICPC Contest Participant** - Practiced competitive problem-solving at international level.

Projects

- **Attendance System (Flask + YOLO + Face Recognition)** Automated attendance web app with face recognition and YOLO detection integrated with MySQL.

- **QR Code Attendance System** Streamlit-based lightweight attendance system for schools and small organizations.

- **Data Science Project on Climate Change** Analyzed emissions, temperature, and disaster datasets to study climate change impact.

- **AI Vicharana Shala Projects** Implemented Vigenère Cipher encoder/decoder and a collaborative movie recommender system.

- **Tender Automation System** AI-powered tool scraping eProcure tenders using Selenium + BS4 with keyword filtering and insights.

- **RAG HelpBot with Neo4j** Hybrid chatbot combining RAG and Knowledge Graphs for intelligent Q&A.

- **EfficientDet-YOLO Hybrid Detection** Enhanced LVIS dataset rare-object detection using anchor-free detection and Mosaic augmentation.

- **Placement Portal with AI & Neo4j** Placement management system with role-based access, analytics, and AI-powered insights.

- **DNA Chatbot (DNABERT + FastAPI)** Interactive chatbot translating DNA sequences into health-related insights.

- **GUNI Robot Project** Integrated LLMs, MQTT, CompreFace, and LangChain with 17-DOF humanoid robot for smart interaction.

- **Hardware-ML Integration** Current project: Combining IoT hardware with ML-driven automation.

- **Portfolio Website** Personal portfolio built with Next.js, TailwindCSS, animations, and deployed on Vercel.

Certifications & Achievements

- C for Everyone: Programming Fundamentals – UC Santa Cruz (Coursera)

- Foundations of Cybersecurity – Google (Coursera)

- Penetration Testing, Threat Hunting, & Cryptography – IBM (Coursera)

- Automate Cybersecurity Tasks with Python – Google (Coursera)

- Introduction to Virtual Reality – University of London (Coursera)

- Machine Learning with Python – IBM (Coursera)

Interests & Extracurriculars

Acting: JKLU Drama Club   **Music:** Guitar, Ukulele   **Sports:** Badminton, Chess
Other Interests: Open Source, Ethical AI, Cybersecurity & Linux, Maths Enthusiast, NCC Cadet ('A' Certificate).