Suryaansh Sharma

✉ Email: suryaansh958@gmail.com , 🔗 LinkedIn: Suryaansh Sharma , ⊙ GitHub: suryaansh001
🌐 Portfolio: suryaansh-portfolio.vercel.app

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

Projects

- **Racketail Internship Projects**
    - **Fitness Ring AI** – Predicted stress/anxiety via biosignal preprocessing, feature extraction, and ML classification.
    - **Workplace Safety with YOLO** – YOLO-based PPE detection on SHE17 dataset for safety monitoring.

- **Attendance System** – Automated attendance with object detection, pose estimation, face recognition; Flask + MySQL. GitHub

- **Robotics Integration Project** – Integrated systems:
    - 17-DOF Humanoid Robot: Arduino servos, motion sequencing.
    - Desktop Robot: Face recognition, LLM support, Raspberry Pi + Arduino for object handling.
    - FastAPI Pipeline: STT → emotion detection → LLM → TTS with DB memory.
    - GUNI Robot: FastAPI backend, Groq, ElevenLabs, Next.js UI, PyGame animations, MQTT IoT.

- **AI-powered Tender Automation System** – Scraping from eprocure.gov.in, keyword filtering, tender classification.

- **EfficientDet + YOLO Hybrid Model** – Enhanced EfficientDet with YOLO techniques (anchor-free, Mosaic, dynamic head) on LVIS dataset.

- **DNA Analysis Tool with DNABERT** – FASTA analyzer with chatbot interface, embeddings insights; FastAPI + Flutter. GitHub

- **Disaster Human Detection (Thermal Imaging)** – AI for detecting trapped humans in thermal images for rescue.

- **AI Financial Planner** – ML analysis of financial data for investment recommendations. GitHub

- **REx: Dynamic Scene Description** – Real-time object detection with narration and voice feedback for AR/accessibility. GitHub

- **RAG HelpBot with Knowledge Graph** – RAG + Neo4j chatbot for domain-specific Q&A. GitHub

- **Credit Risk Prediction** – Predicted credit delinquency using Kaggle's "Give Me Some Credit" dataset with ML models (RF, XGBoost, CatBoost). GitHub

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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).