Harshita Sharma

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SUMMARY

A highly motivated and inquisitive undergraduate in Computer Science and Engineering seeking on-site internship opportunities in the tech industry. Demonstrates strong research capabilities, adaptability, and a collaborative mindset with prior contributions to innovation-driven hackathon teams. Eager to apply academic knowledge in real-world scenarios, gain hands-on industry exposure, and further develop technical and interpersonal skills.

TECHNICAL SKILLS

Programming Languages: Python, Java, C/C++, JavaScript/TypeScript
Web/Cloud: React.js, Node.js, Express, FastAPI, HTML/CSS, REST APIs, Firebase, MongoDB, SQL
ML & Tools: TensorFlow, Keras, scikit-learn, OpenCV, Pandas, Git, Linux

PROJECTS

AgriSense – Smart Farming System | *ESP32, React, MongoDB, Python* — Apr 2025
- Built an IoT agriculture system with sensor nodes (soil moisture, temperature, humidity) feeding a Node.js/Raspberry Pi backend and a React dashboard for real-time monitoring.
- Implemented ML to predict crop health and irrigation needs; proactive alerts and analytics targeted loss reduction.

ShaktiPath – Women Safety Navigation App | *React (TypeScript), Supabase, Leaflet APIs* — May 2025
- AI-powered safe route planning prioritizing well-lit, secure paths using Google Maps, OpenCage, and MapBox to score lighting, CCTV, police proximity, crowd density, and risk zones.
- Added real-time GPS tracking and SOS alerts to trusted contacts for rapid response.

IntelliQrHelp – Smart Emergency Response System | *React, Firebase, IoT (ESP8266), Telegram API* — Jan 2025 – Feb 2025
- Delivered QR-linked medical profiles (blood type, allergies, history) via Firebase; secure personalized QR codes for instant access.
- Telegram bot and ESP8266 SOS button trigger real-time alerts to contacts; reduced information retrieval time during emergencies at the 2025 VIT–JHU Health Hackathon.

AI-Based Job Recommendation System | *Python, scikit-learn, TensorFlow, Grey Fish Optimization* — May 2025 – Jun 2025
- Surveyed optimization techniques (GFO, DO, RDO) for hyperparameter tuning and compared impacts on model performance.
- Engineered features and matching logic to align skills and profiles with roles, improving recommendation relevance.

EDUCATION

VIT Bhopal University — Bhopal, M.P., India
B.Tech in Computer Science and Engineering (CGPA: 8.91/10) — *Sep 2023 – May 2027 (Expected)*

BNR Excellence Academy — Kharagpur, West Bengal, India
Class XII (CBSE), 77.6% — *2022*

St. Agnes School — Kharagpur, West Bengal, India
Class X (ICSE), 92.4% — *2020*

CERTIFICATIONS

Fundamentals of Artificial Intelligence & Machine Learning – Vityarthi
Python Essentials – Vityarthi
Java Programming – Vityarthi
NPTEL - Introduction to Machine Learning
Geospatial Analysis using Google Earth Engine – ISRO IIRS