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 Apr 2025
IoT & Machine Learning Project *ESP32, React, MongoDB, Python*

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 May 2025
Hackathon Project – Safe Route Planning *React (TypeScript), Supabase, Leaflet APIs*

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 Jan 2025 – Feb 2025
Health Hackathon Project *React, Firebase, IoT (ESP8266), Telegram API*

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.

Skin Disease Detection System – AI Health Project Mar 2025 – Apr 2025
Research / Prototype *Python, TensorFlow/Keras, OpenCV*

Curated and annotated a dataset for CNN-based diagnosis; built a preprocessing pipeline to improve classification quality.

Outlined user workflows and UX for condition-based guidance and clarity.

AI-Based Job Recommendation System May 2025 – Jun 2025
Machine Learning Project *Python, scikit-learn, TensorFlow, Grey Fish Optimization*

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

Geospatial Analysis using Google Earth Engine – ISRO IIRS