

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