HARSH TRIPATHI

Greater Noida, Uttar Pradesh, India

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EDUCATION

Noida Institute Of Engineering And Technology — Nov 2022 – June 2026
Bachelor of Technology in Information Technology

Jesus And Mary School And College — 2020 – 2021
Intermediate

ST. James School And College — 2018 – 2019
Matriculation

SKILLS

Languages: Python, Java, JavaScript, TypeScript, SQL, NoSQL
Developer Tools: Git, AWS, Microsoft Azure, MySQL, Postman, MongoDB, PowerBI, VS Code
Technologies/Frameworks: Linux, ReactJS, NodeJS, ExpressJS, Scikit-learn, TensorFlow, PyTorch, Flask
Others: Data Structure and Algorithm, Operating System, Networking, Database

EXPERIENCE

GirlScript Summer of Code (GSSoC) — May 2024 – July 2024
Contributor

- Fixed 7+ critical React.js and JavaScript bugs, boosting stability by 35% and performance by 15%.
- Collaborated with 5 maintainers and 15+ contributors, reducing PR response time by 20%.

PROJECTS

AgriShield ⬈ | *MERN, Ethereum Blockchain, Python, Scikit-learn, XGBoost, Razorpay, Socket.io*

- Engineered a platform connecting farmers and buyers for secure contract farming and market access.
- Implemented **Ethereum blockchain** for digital contracts, enabling secure negotiations on prices and delivery.
- Integrated **Razorpay API** for secure payments with blockchain **escrow** services.
- Developed an **AI** crop price predictor with **Python** and **XGBoost**, achieving **90%** accuracy.
- Integrated real-time chat with **Socket.io** to enhance user communication.

Skin Cancer Detection ⬈ | *TensorFlow.js, Python, OpenCV, CNN, Scikit-image, Keras*

- Developed a web-based **skin lesion classifier** for detecting **melanoma and non-melanoma**.
- Used **OpenCV** and **Scikit-image** for image preprocessing and augmentation.
- Trained models with **TensorFlow, Keras**, leveraging transfer learning and data augmentation.
- Deployed real-time predictions using **TensorFlow.js** for client-side inference.

Klimate - Weather Application ⬈ | *React, TypeScript, Tailwind CSS, OpenWeather API, Shadcn UI*

- Created a responsive, mobile-first UI with **Tailwind CSS** and **Shadcn UI** for a seamless user experience.
- Integrated **OpenWeather API** for real-time weather data, including temperature, humidity, and forecasts.
- Used **Recharts** to create interactive visualizations of temperature and humidity trends.
- Employed **TanStack Query** for efficient data fetching, caching, and state management.

EXTRACURRICULAR

Google Developer Student Clubs (GDSC) — Nov 2022 – Present
Member

- Organize monthly workshops and quarterly hackathons for 50+ peers in Google technologies.
- Lead 6-member teams in hackathons like the Smart India Hackathon, College Hackathons delivering innovative solutions.

CERTIFICATIONS

- Build a natural language processing solution with Azure AI Language ⬈
- Build an Azure AI Vision solution ⬈
- Create an intelligent document processing solution with Azure AI Document Intelligence ⬈
- Python for Data Science, AI & Development ⬈