

HARSH VERMA

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SKILLS

- **Programming Languages:** Python, C, JavaScript
- **Web Technologies:** HTML, CSS, React, Next.js, Tailwind CSS, MongoDB, UI/UX designing
- **AI/ML:** TensorFlow, NumPy, Pandas, Matplotlib
- **Tools:** VS Code, Google Colab, Git, GitHub, Figma AWS, Postman
- **Soft Skills:** Leadership, Problem-Solving, Project Management, Communication

EXPERIENCE

Freelance Intern — Bengaluru, India

Present

- Supported software development initiatives through technical documentation, data analysis, and requirement analysis.
- Assisted in backend logic planning and API-level design for ongoing projects.
- Collaborated with team members to improve development workflows and delivery efficiency

PROJECTS

E-Commerce Platform

- Built a full-stack web application using Python and SQL with secure user authentication.
- Implemented product catalog, cart management, and order workflows following REST principles.

Automated Classroom Monitoring System

- Developed a real-time system using live camera feeds and machine learning models.
- Automated activity detection and data processing for scalable monitoring

Criminal Management System

- Developed a digital record-keeping system to digitize and automate the management of criminal records, FIRs, and prisoner details.
- Engineered an advanced search and filtering module, allowing officials to query vast datasets by multiple parameters (ID, name, crime type).
- Optimized database interactions using MySQL, ensuring high availability and efficient reporting for law enforcement agencies.

ACHIEVEMENTS

Smart India Hackathon 2025

Pre-Finalist

- Designed and developed a working software prototype for a real-world industry problem.
- Implemented core features with focus on performance, correctness, and scalability under strict timelines.

SPONSORSHIP TEAM LEAD@SheBuildsBIR

A non-profitable community founded in 2024 to empower women in tech and business through mentorship, tech events, and product development. (10K+ members)

Certifications

AWS Solutions Architecture • Deloitte Cyber & Technology • Walmart Advanced Software Engineering • Master card Cybersecurity • Infosys Network Fundamental

Research

Email Header Analysis for Phishing Detection

- Research paper submitted to the International Conference on Smart Futuristic Technology (ICSFT).
- Applied machine learning and explainable AI techniques to detect anomalies in email metadata

AI-Driven Exam Generation & Test Automation.

- Analyzed LLM and RAG-enhanced architectures to achieve 70–80% workflow efficiency gains.
- Evaluated psychometric validity and syllabus coverage across hybrid AI-driven generation pipelines.
- Developed design principles for secure on-premise inference and Bloom's Taxonomy alignment.

Multi-Class Brain Tumor Classification via Transfer Learning

- Evaluated VGG16, ResNet50, and MobileNetV2 architectures for automated multi-class MRI tumor classification.
- Achieved 96.2% accuracy and 0.98 AUC with ResNet50, validating transfer learning for clinical decision support.

EDUCATION

Bachelor of Technology in Computer Science

July 2023 - 2027

Dayananda Sagar University

(Ongoing)