Harshit Sharma

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Professional Summary

Software Developer and Full-Stack Engineer with experience in AI Model Refinement, Cloud Computing (AWS / Azure), Cybersecurity and Web Development. Proficient in Python, Java, C++, and JavaScript. Passionate about building scalable AI-driven solutions and secure cloud architectures.

Technical Skills

- Languages: Python, Java, C++, C#, C, JavaScript (ES6+), SQL, Bash,
- AI/ML: TensorFlow, Keras, PyTorch, Scikit-learn, NLP, NLTK, SpaCy, Transformers, Predictive Modeling, LLM Evaluation, Prompt Engineering, Model Training & Fine-Tuning, OpenAI API, Hugging Face, AI Code Analysis
- Web Dev: MERN Stack, Vite, Next.js, Redux, Tailwind CSS, Bootstrap, Firebase, REST APIs, JWT Auth, Responsive UI
- Tools: Git, GitHub, VS Code, IntelliJ, Eclipse, Postman, MongoDB Compass, Docker,
- Data Science & Visualization: Hadoop, Big Data Analytics, Pandas, NumPy, Matplotlib, Seaborn, Plotly, Hadoop, EDA, Big Data Analytics
- Cybersecurity: Kali Linux, Ethical Hacking, Network Security, Metasploit, Nmap, Burp Suite, OWASP Top 10, Packet Sniffing, Wireshark, Linux-based Pen Testing
- Software Development Concepts: Object-Oriented Programming, Functional Programming, API Integration, MVC Architecture, Event-Driven Architecture, Microservices (basic), gRPC, Kafka (introductory), System Design Fundamentals

Education

Dr. A.P.J. Abdul Kalam Technical University (AKTU), B.Tech in Information Technology   Sept 2022 – May 2026

- **Coursework:** Computer Science - Information Technology, Data Structures, Algorithms, Web Development, Cybersecurity, System Design, Database Management Systems, Artificial Intelligence, Machine Learning, Automation Software Engineering.

Experience

Machine Learning Engineer, Alignerr   March 2025 – Present

- Engineered dynamic data visualizations and heatmaps using Python to surface insights from complex AI.
- Deployed an automated GCP pipeline via Colab to generate and deliver outputs through public endpoints.

Machine Learning Engineer, Outlier AI   Sep 2023 – Jun 2025

- Audited LLM responses for high-complexity tasks, validating reasoning across STEM domains.
- Used Python to redesign flawed logic and implement constraint-based prompts for stress-testing model.

Software Engineer(AI) Intern, ShadowFox   Feb 2025 – April 2025

- Engineered an AI-driven autocorrect keyboard with predictive text using NLP techniques.
- Built ML models for vehicle price forecasting and deployed custom AI language models.

Cybersecurity Trainee , IBM   Sep 2024 – Oct 2024

- Trained in ethical hacking, network security protocols, and offensive tooling with Kali Linux.
- Deployed multi-layered defense strategies to simulate protection of enterprise-grade infrastructures.

Leadership Roles

Jan 2023 - Dec 2024

Leadership & Volunteering

- **TechGig Campus Ambassador** – Organized coding competitions and engaged student developers.
- **GDSC SRMCEM Technical Team** – Conducted technical workshops on cloud computing and AI.
- **Internshala Student Ambassador** – Mentored 50+ students on internships and career opportunities.
- **Managing Volunteer, HCL Tech** – Led mental health awareness sessions and outreach campaigns.
- **Social Worker, Hamari Pehchan** – Raised funds and managed community welfare drives.
- **Technical Writer Lead** – Designed and reviewed competitive programming challenges and tutorials.

Projects

Mocca (MERN Stack | Real-Time Communication)

- Implemented peer-to-peer communication using WebRTC for low-latency calls.
- Enabled room-based communication and dynamic video stream switching.

CityPulse (Data Visualization | Traffic Analysis | AI & GIS)

- Supports heatmap uploads and processes them to extract congestion and traffic density metrics.
- Visualizes results through interactive charts and geospatial maps using D3.js and Leaflet.

SellHole (MERN Stack | Social Impact | E-Commerce Platform)

- Eliminates middlemen by enabling transparent and direct trade.
- Scalable backend using Node.js and MongoDB; integrated secure user authentication with JWT.

AI Tutor (Hybrid AI | LLM | Educational Tech | Local Privacy-Focused AI)

- Smart routing system connects to Ollama, LLaMA.cpp, or OpenAI APIs based on question type.
- Specialized for academic domains using custom knowledge bases and fine-tuned prompts.

DABBA (MERN Stack | Community Empowerment | Food-Tech)

- Enables housewives to monetize cooking skills while solving affordability and nutrition for students.
- Built role-based dashboards with order management, real-time notifications, and reviews.

Certifications

Forage: AWS Solutions Architect - 2024

Microsoft : Microsoft Azure Fundamentals - 2024

IBM : Big Data Foundations - 2023

IBM : IBM Cybersecurity Professional (XGS V5.2) - 2024

IBM : Python for Data Science - 2023

Microsoft : C# Certification - 2024