

Saurabh Sharma

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EDUCATION

Techno India University Kolkata, IN

9.08 CGPA

Bachelor of Technology - Computer Science and Engineering (AI/ML)

EXPERIENCE

Consultant, Analytics & Automations – Digital Risk

July 2025 – Present

GDS, Ernst & Young

- Developed full-stack components for Microsoft's M365 Compliance platform using ASP.NET Core and React, enhancing trust and compliance workflows.
- Extended tool calling for the Trust Copilot AI chatbot, enabling advanced AI-driven automation and user interactions.

Tags: C#, ASP.NET Core, ReactJS, TypeScript, Databases, Microsoft SQL Server, LINQ, FluentUI, Model Context Protocol (MCP)

Machine Learning Engineer (Intern)

March – July, 2025

Volterra Group, HK

- Scraped and processed extensive datasets to source training data for custom machine learning models, incorporating ensembles, hybrid architectures, and HNSW-indexed kNN for efficient similarity search.
- Achieved near state-of-the-art accuracy with inference times reduced to microseconds, enabling real-time applications.
- Deployed models using FastAPI and developed a basic Next.js application for the client's team to test and interact with the solution.

Tags: Scikit-Learn, FAISS, FastAPI, NextJS

Full Stack Developer (Intern)

September – November, 2024

Instahyre

- Developed and maintained core components for candidate-side applications using Django and Angular.
- Improved application response time by as much as 43% on several routes by optimizing Django implementations.

Tags: Python, Django, Celery, Angular, Less, HTML/CSS, Javascript

ACHIEVEMENTS

National Winner, Kavach 2023 – Led team to develop Helmdall in India's premier cybersecurity hackathon, organized by the Government of India; invited to IIT Kanpur's incubator.

National Winner, Smart India Hackathon 2023 – Led development of Samklaang in India's largest national hackathon, organized by the Ministry of Education, competing against 2000+ teams.

SKILLS

- **Languages:** Javascript, Typescript, Python, Bash, C, Go, C#, SQL
- **Frameworks:** MERN Stack, ExpressJS, ReactJS, NextJS, FastAPI, GoFiber, ASP.Net Core
- **Tools:** Git, Linux, Docker, Kubernetes, AWS, GCP, MongoDB, PostgreSQL
- **Concepts:** Full-Stack, CI/CD, Cybersecurity, Machine Learning, Data Analytics

PROJECTS

Helmdall - plug-and-play system auditing tool - winning project for [Kavach, 2023](#)

 [contra-kvh/helmdall-client_archived](https://github.com/contr-kvh/helmdall-client_archived)

- Led a 5-person team, securing an invitation to IIT Kanpur's C3I Startup Incubator.
- Engineered a high-performance Rust client reducing system overhead by 30%.
- Implemented AI-driven threat analysis and scalable architecture for 100+ real-time clients with 99.9% uptime.

Tags: Rust, Go, NuxtJS, Cybersecurity, Network Programming, Distributed Systems

Samklaang - intelligent collaboration suite - winning project for [the Smart India Hackathon, 2023](#)

- Led development of Samklaang, winning the Smart India Hackathon 2023 among 2000+ teams nationwide.
- Engineered a high-performance backend using Gofiber, the Go library, supporting 1000+ simultaneous users.
- Integrated LiveKit for scalable video conferencing, enabling high-quality SFU calls for thousands of participants.
- Employed lossless recording methods, improving transcription accuracy by 40% and enabling AI-driven insights.

Tags: Go, NextJS, Typescript, WebRTC, Electron, Livekit