Abhishek Roy

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Languages: English (C2), Hindi (C2), Bengali (Native), German (A1)

Summary

Results-driven MCA student specializing in Machine Learning, Cybersecurity, and Digital Forensics. Hands-on experience in multi-agent AI, swarm intelligence, and real-world ML model development. Strong in Python-based research, model testing, and building scalable, data-driven systems for intelligent automation.

Skills

Machine Learning, Python, Cyber Forensics, Penetration Testing, JavaScript, Core Java, AWS, MySQL, Oracle, SQL Optimization, Data Analysis, Linux Forensics

Experience

IIT Kharagpur — Research Intern (2026–Present)

• Swarm drone task decomposition using ML coordination strategies.

• Built multi-agent decision decomposition models and evaluated performance.

• Conducted benchmarking, model testing, and reproducible experiments using Python ML stack.

Aperture LLC — Intern (2025–Present)

• Digital forensic investigations across Linux systems.

• Automated evidence extraction using scripting and open-source tools.

• Improved analysis workflows and documentation pipelines.

Skarma Softech Pvt Ltd — Intern (2023)

• Computer vision for vehicle detection and speed estimation.

• Model accuracy tuning and real-world validation.

• Prototyped cost-effective vision-based monitoring system.

Education

MCA — ICFAI University — CGPA: 8.6 (2026)