

Mayan Kumar

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SUMMARY

Aspiring Software Engineer and Cybersecurity enthusiast skilled in Python backend development, AI integration, and web security. Experienced in building LLM-powered applications and automated reconnaissance tools, including recent internship work at Tata Motors. Ranked in the top 1% on TryHackMe with a strong aptitude for penetration testing, scripting, and secure coding practices.

EXPERIENCE

Software Engineering Intern

Dec. 2025 – Present

Tata Motors

Jamshedpur, IN

- Architected a modular RAG engine using FastAPI and ChromaDB to provide context-aware LLM responses from heterogeneous sources including PDF, CSV, and web content.
- Developed autonomous SQL Agents to translate natural language queries into safe database actions, enabling real-time analytical insights from local SQLite datasets.
- Integrated a graph generator module to visualize data relationships and created utility scripts for maintaining local development/test databases.

Technical Instructor

Feb. 2025

Arka Jain University

Jamshedpur, IN

- Conducted a 3 day technical workshops on Windows and Linux command line usage for 100+ students.
- Delivered lectures on Linux basics including utility commands, piping, scripting, and task scheduling.
- Explained parallels between Linux CLI and PowerShell to facilitate cross-platform adoption.

PROJECTS

Spam URL Detector | *Python, scikit-learn, FastAPI, Chrome Extension*

Oct. 2025 – Nov. 2025

- Built a spam URL detection model using Random Forest and engineered features like length and entropy.
- Deployed the model via FastAPI to enable real-time URL scanning.
- Integrated the backend with a Chrome Extension to provide user-friendly, on-browser detection.

Aura Web Recon Tool | *Python, Flask, Tailwind*

July 2025 – Aug. 2025

- Developed a Flask-based web recon tool that centralizes WHOIS, DNS, and subdomain discovery.
- Automated DNS enumeration and crt.sh subdomain harvesting to speed up reconnaissance.
- Built a unified UI for one-click lookups, reducing manual query steps and normalizing results.

CTFs Walkthrough Blog | *Markdown, Docker, Jekyll, GitHub Pages*

March 2025

- Created a personal blog using GitHub Pages to host structured CTF challenge walkthroughs.
- Utilized Jekyll for responsive theming and customized layouts for better readability.
- Integrated CI/CD pipelines using GitHub Actions for automated deployment.

EDUCATION

Arka Jain University

Jamshedpur, Jharkhand

B.Tech in Computer Science and Engineering; CGPA: 9.45

2022 – 2026

DAV Public School

Adityapur, Jharkhand

Class 12 (CBSE); 88.40%

2022

ACHIEVEMENTS

TryHackMe Global Top 1%: Ranked in the top 1% globally; practiced offensive security across reconnaissance, web exploitation, and privilege escalation.

TECHNICAL SKILLS

Languages: Python, SQL, Bash, PowerShell, JavaScript, HTML/CSS

Frameworks/Libraries: Flask, FastAPI, Langchain, scikit-learn, Pandas, NumPy, Matplotlib

Cybersecurity Tools: Burp Suite, Nmap, Nessus, Wireshark, Metasploit, Hashcat, Gobuster

DevOps & Tools: Git, GitHub, Docker, GitHub Actions, Linux (Kali), Windows Automation