

Aditi Pandey

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Profile Summary

Aspiring Cybersecurity Professional with expertise in SOC Operations, Threat Detection, Vulnerability Management, and Penetration Testing. Passionate about securing digital assets, experienced in cloud security, SIEM, incident response, self-built labs and recognised in global cybersecurity competitions.

Education

Vellore Institute Of Technology, Bhopal

Bachelor of Technology in Computer Science and Engineering, CGPA: 8.58/10

Specialisation in Cyber Security and Digital Forensics

Madhya Pradesh, India

Oct. 2022 – 2026

Skills

- **Languages:** Java, Python, MySQL, JavaScript, HTML/CSS
- **Cybersecurity Skills:** Linux, VAPT, Web Application Security, SIEM, SOC Operations, Network Security, Cloud Security (AWS, Azure), Tools: Metasploit, Wireshark, Nmap, Burpsuite
- **Relevant Courses:** Data Structures and Algorithms, Database Management System, Computer Networks, Operating System, Cybercrime and Laws, CEH Ethical Hacker Course, AWS Cloud Practitioner Course
- **Soft Skills:** Teamwork, Event Management

Project Experience

1. SIEM Integration with AI Chatbot — Microsoft Sentinel Security Automation Project

- Integrated Microsoft Sentinel with ChatGPT via logic applications to automate incident enrichment and response using AI-generated contextual insights from alerts.
- Enhanced detection and triage capabilities, strengthened skills in log correlation, security automation, and AI-driven threat analysis.
- Reduced incident response time by 50% and improved threat detection accuracy through automated AI-powered analysis.

2. Microsoft Sentinel SIEM — Real-time Cloud Threat Monitoring Cloud Security Project

- Deployed Microsoft Sentinel to simulate real-time cloud threat monitoring with Microsoft Entra ID logs and created custom analytics rules.
- Gained hands-on experience in SIEM data flow, incident lifecycle, dashboard visualization, log ingestion, threat detection, and cloud-based security operations.
- Successfully implemented a comprehensive monitoring solution covering 15+ types of security events with real-time alerting capabilities.

3. Email Monitoring System — Real-time Phishing Detection Tool Python Development Project

- Developed a real-time monitoring tool for phishing and policy violations using Python with NLP techniques and ensemble machine learning models.
- Implemented robust email content analysis and threat classification for comprehensive security monitoring.
- Achieved 97% accuracy in phishing detection, reducing manual efforts by 60% and improving threat response time by 40%.

Certifications

- Professional Cyber Security Analyst: IBM
- SOC Fundamentals
- Gen AI: IBM
- Cyber Physical System: NPTEL
- Bits and Bytes of Computer Network: Coursera

Achievements

- **AmexGirl Hackathon 2024:** Selected up to the prototype round for the American Express Girl Hackathon 2024.
- **LetsDefend Lab:** Successfully caught the first alert and investigated the first incident at LetsDefend Lab.
- **Deloitte:** Cyber Job Simulation, Virtual Internship.
- **Ranked in the Top 3% globally** on TryHackMe with 900+ streaks.
- Attended Codeforces Div.3 contest.
- Member of Microsoft Club and Insights Club at VIT Bhopal.