

# Abhinav Mehra

---

Amritsar, Punjab | [abhinavmehra2004@gmail.com](mailto:abhinavmehra2004@gmail.com) | +91 79737 51048 | LinkedIn: [linkedin.com/in/abhinav-mehra-356a7a333](https://www.linkedin.com/in/abhinav-mehra-356a7a333)

## EDUCATION

VIT Bhopal University — Bhopal, India

B.Tech in Computer Science (Cybersecurity Specialization)

CGPA: 8.5

Relevant Coursework: Cybersecurity, Network Security, Digital Forensics, Operating Systems

DAV Public School, Amritsar

12th Grade (Science Stream): 81%

10th Grade: 94.8%

## EXPERIENCE

Cybersecurity Intern — Feb 2024 – Present

- Configured 3+ firewall setups and analyzed 50+ network captures using Wireshark to enhance security
- Discovered 10+ web vulnerabilities including SQL Injection and XSS with WebGoat and OWASP ZAP
- Conducted weekly penetration tests using Nmap, Metasploit, and Burp Suite to uncover system weaknesses
- Applied Sleuth Kit and NSRL to recover data from corrupted disks; method adopted by 30+ investigators
- Wrote detailed risk assessments with 5+ mitigation suggestions to reduce cyber threat exposure

## PROJECTS

Facial Recognition System — Sep 2024 – Jan 2025

- Developed system using HOG, CNN, and deep learning; achieved 92.08% test accuracy
- Encoded facial features from 13,000+ images for robust identification

- Enabled real-time detection for use in security, attendance, and ID verification scenarios
- Improved system accuracy and response time by over 90% in testing

#### AutoPent – Automated AI-powered Penetration Testing Framework Jan 2025 – Apr 2025

- Developed an automated penetration testing platform combining Nmap, Nikto, SQLMap, and Metasploit for comprehensive assessments.
- Automated the full pentesting lifecycle, including reconnaissance, exploitation, and privilege escalation.
- Integrated AI models to generate actionable, context-aware security report
- Designed and implemented a user-friendly GUI using PyQt5 and Flask, allowing even non-experts to intuitively run assessments, visualize progress, and export actionable reports.
- Enabled rapid vulnerability detection and remediation guidance with minimal manual effort.

## CERTIFICATIONS

- Google Cybersecurity Professional Certificate — Scored 100%
- TryHackMe Pre-Security and Cybersecurity 101 — Top 5% ranking
- Microsoft Certified: Security, Compliance, and Identity Fundamentals (SC-900)—Scored 93%

## TECHNICAL SKILLS

Tools & Platforms: Kali Linux, Wireshark, Nmap, Burp Suite, Metasploit, Autopsy, EXIF

Languages: Python, Bash, MySQL

Concepts: Packet Analysis, Threat Hunting, Penetration Testing, Digital Forensics, Password Cracking, Version Control, Virtualisation

## ACHIEVEMENTS

- Detected and remediated 3 critical XSS vulnerabilities on a company website
- Completed the Google Cybersecurity Professional Certificate with a perfect score (100%) across all assessments.
- Top 5% globally on TryHackMe

## ACTIVITIES

Metaversity Club, VIT Bhopal — Core Member

Dec 2024 – Present

- Led PR for ARChase (Augmented Reality event); attracted 150+ participants
- Partnered with Bit by Bit Club to host 3+ tech talks and sessions engaging 200+ students

## SOFT SKILLS

Effective written and verbal communication, collaborative project execution, deadline management, strategic planning, flexible workflow adaptation, and issue resolution.

## LANGUAGES

English (Fluent), Hindi (Fluent), Punjabi (Native)

## SUMMARY

I have hands-on experience in cybersecurity, including protecting systems, testing websites for vulnerabilities, and recovering lost data. I'm familiar with tools like Wireshark, Nmap, Burp Suite, Metasploit, and Kali Linux. I can identify security issues, understand potential threats, and work on fixing them. I completed the Google Cybersecurity Certificate with a perfect score and ranked in the top 5% on TryHackMe. I focus on clear communication, logical thinking, and addressing problems early. I'm always learning and looking for ways to improve system security.