

# Himanshu Gaur

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## Education

VIT Bhopal University, B.Tech Computer Science Engineering (Cyber Security and Digital Forensics)

Sep 2023 - May 2027

Cambridge Court High School, Class 12 (Senior Secondary), Jaipur

Apr 2021 - May 2022

## Experience

**Pentesting Intern** | Ceeras IT Services | Hyderabad (Remote, Part-Time)

Feb 2025- Jun 2025

- Analyzed 55+ systems for vulnerabilities and unusual behaviors by continuously monitoring network endpoints with tools like Nmap and Wireshark.
- Assisted in developing and enforcing 15+ security protocols, reducing false-positive alerts and improving system hardening.
- Participated in 5+ incident response simulations, helping streamline mitigation workflows and reduce response time by 45%.

**Python Data Science Developer Intern** | Megaminds IT Services | Hyderabad (Remote, Part-Time)

Apr 2025- Jun 2025

- Built 25+ custom Python solutions for diverse academic research projects, theses, and dissertations, spanning AI/ML, NLP, and data analytics.
- Achieved 100% on-time delivery for all plagiarism-free, domain-specific code, aligning with international university standards.
- Increased task efficiency by 75%, automating data processing pipelines and creating visualizations with Pandas, NumPy, and Seaborn.

**Cyber Security Intern | Police Headquarters**, Rajasthan Police | Jaipur (Onsite)

May 2025- Jun 2025

- Used OSINT tools to investigate banking fraud and blockchain misuse, coordinating and advancing over 200 case data points.
- Contributed to 15+ digital forensic investigations by preparing comprehensive incident reports compliant with ISO 27001 and NIST standards.
- Informed strategic planning by identifying 25+ emerging threat patterns and drafting actionable intelligence, ensuring product quality.

## Projects

**Unlocking Identities: The Power of Facial Recognition**

Sep 2024- Dec 2024

- Engineered a facial recognition system that enhanced physical and cybersecurity, ultimately reducing spoofing risks by 65%.
- Gained 97% real-time verification accuracy by integrating OpenCV and CNN models for facial detection, extraction, and verification.
- Streamlined authentication workflows for restricted areas by enabling secure biometric access, which drove the 65% reduction in spoofing risks.

**AutoPent - Automated Penetration Testing Framework**

Jan 2025- Apr 2025

- Developed an AI-powered security tool for end-to-end pentesting, successfully reducing human effort by over 75%, as per user requirements.
- Augmented this 70% efficiency gain by automating recon, vulnerability scanning, and Metasploit exploitation with a Llama3.1 LLM for fixes.
- Unlocked fast, offline, and modular security testing across diverse environments, a capability made possible by the 75% effort reduction.

**PhishDefender: AI-Powered Phishing Response System**

Mar 2025- May 2025

- Engineered an automated system to detect/respond to phishing threats, reducing manual triage efforts by over 85%, ensuring reliability.
- Integrated email parsing, threat intelligence, and rule-based actions to flag, isolate, and auto-respond, accelerating response by 45%.
- Minimized user exposure and accelerated incident response by over 65% by deploying live alerting and adaptive dynamic blocking mechanisms.

## Skills

- Programming Languages:** Python, C++, Java, Bash
- AI & Data Science Libraries:** Flask, Django, Streamlit, Requests, Sockets, Tensorflow, Pytorch, Seaborn, sklearn, numpy, pandas, matplotlib
- Tools/Platforms:** Kali Linux and Tools, Metasploit, Automated Workflows, Splunk, Docker, Git/GitHub, MySQL, MongoDB, API Integration
- Key Cybersecurity Concepts:** Penetration Testing, Security Automation, Incident Response, Threat Intelligence and Analysis, SOC Operations, Vulnerability Management, Malware Analysis, Digital Forensics, Network Security, OSINT, SIEM, Red Teaming, Risk Management
- AI & Machine Learning Focus:** Machine Learning Concepts, LLM Integration, Prompt Engineering, AI-driven Automation, Model Fine-tuning, AI-Security Tools, NLP-based Analysis, Exploratory Data Analysis, Lime and Shap, Predictive Model, Algorithm Selection
- Core CS Concepts:** Data Structures & Algorithms, Object-Oriented Programming (OOPs), Competitive Coding, DBMS, Operating Systems
- Soft Skills:** Team Leadership, Project Management, Strong Communication, Public Speaking and Relations, Financial Analysis, Creative Engineering

## Achievements

**Top 1% Global Rank – TryHackMe (2025)**

- Earned a top 1% global ranking by completing advanced cybersecurity labs and complex challenges in ethical hacking and red teaming.
- Mastered core and emerging cybersecurity concepts through consistent dedication to hands-on learning and a strong passion for the field.

## Certificates

- Certified Network & Website Pen Testing Professional—Udemy—July 2025
- CompTIA Pentest+ —TryHackMe—March 2025
- Getting Started with Bug Bounty—EC-Council—January 2025
- Execution, Persistence, Privilege Escalation, and Evasion—InfoSec—November 2024
- Introduction to Python for Cyber Security—InfoSec—October 2024

## Leadership & Extracurricular Activities

Aug 2024 - Sep 2025

**Treasurer & Team Lead** | BitByBit Club, VIT Bhopal University (On-Site)

- Managed the club's annual budget, overseeing all financial transactions and ensuring fiscal responsibility for member activities and events.
- Progressed through 4 promotions from Core Member to Treasurer due to demonstrated leadership, project management, and consistency.