

# Himanshu Gaur

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## Education

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

Sept 2023- May 2027

Cambridge Court High School, High School (10+2), Science Stream

Completed : 2022

## Experience

**Pentesting Intern**, Ceeras IT Services - Hyderabad Based - Remote

Feb 2025- June 2025

- Monitored over 50+ systems and endpoints to identify vulnerabilities and unusual behavior using tools like Nmap and Wireshark.
- Assisted in developing and enforcing 10+ 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 ~25%.

**Python Data Science Developer Intern**, Megaminds IT Services, Hyderabad Based - Remote

Apr 2025- June 2025

- Developed 20+ custom Python solutions for academic research projects, theses, and dissertations across AI/ML, NLP, and data analytics.
- Delivered plagiarism-free, domain-specific code aligned with international university standards, meeting 100% of deadlines.
- Automated data processing pipelines and visualizations using Pandas, NumPy, and Seaborn, improving task efficiency by ~25%.

**Cyber Security Intern**, Rajasthan Police, Jaipur - Onsite

May 2025- June 2025

- Investigated cybercrimes (banking fraud, blockchain misuse) using OSINT and contributed to AI-driven threat database.
- Prepared incident reports following ISO 27001 and NIST standards; assisted in digital forensics & field response.
- Supported strategic planning by identifying emerging threat patterns and drafting actionable intelligence summaries.

## Projects

### Unlocking Identities: The Power of Facial Recognition

- Developed a facial recognition-based identity verification system to enhance cybersecurity and physical access control.
- Integrated OpenCV and CNN models to detect, extract, and verify faces in real-time with >95% accuracy.
- Strengthened authentication workflows, reducing spoofing risks and enabling secure biometric access for sensitive environments.

### Autopent

- Developed an AI-powered security automation tool for end-to-end website pentesting with minimal manual input.
- Automated recon, vulnerability scanning, Metasploit exploitation, and integrated Llama3.1 7B LLM for intelligent fixes.
- Reduced human effort by ~70%, enabling fast, offline, and modular assessments across diverse environments.

### PhishDefender: AI-Powered Phishing Response System

- Built an automated system to detect and respond to phishing threats, reducing manual triage by over 80%.
- Integrated email parsing, threat intelligence, and rule-based actions to flag, isolate, and auto-respond to suspicious messages.
- Improved incident response time and minimized user exposure using real-time alerts and dynamic blocking mechanisms.

## PROFESSIONAL PROFICIENCIES

- Programming Languages** : Python, C++, Java, Bash
- Frameworks** : Flask, Django, Streamlit, Requests, Sockets, Tensorflow, Pytorch, Seaborn, sklearn
- Tools/Platforms** : Kali Linux, Metasploit, Automated Workflows, Splunk, Docker, Git/GitHub, MySQL, MongoDB, API Integration
- Key Cybersecurity Concepts**: Penetration Testing, Security Automation, Incident Response, Threat Intelligence, SOC Operations, Vulnerability Management, Malware Analysis, Digital Forensics, Network Security, OSINT, SIEM, Red Teaming
- AI & Machine Learning Focus**: Machine Learning Pipelines, LLM Integration, Prompt Engineering, AI-driven Automation, Model Fine-tuning, AI Security Tools, NLP-based Analysis
- Programming Concepts**: Data Structures & Algorithms, Object-Oriented Programming (OOP), REST APIs, Competitive Coding
- Soft Skills** : Team Leadership, Problem Solving, Project Management, Strong Communication, Public Speaking and Relations

## Achievements

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

- Recognized among the top performers worldwide for completing advanced cybersecurity labs and challenges in ethical hacking and red teaming.
- Demonstrated consistent dedication to hands-on learning and a strong passion for mastering core and emerging cybersecurity concepts.

## Certificates

- Demystifying Mobile Forensics - EC Council - Jul 2025
- Kali Linux Penetration Testing - Infosys Springboard - Apr 2025
- CompTIA Pentest+ – TryHackMe - March 2025
- Jr Penetration Tester – TryHackMe - March 2025
- Introduction to Cyber Security – CISCO - Jan 2025
- Getting Started with Bug Bounty – EC-Council - Jan 2025
- Execution, Persistence, Privilege Escalation and Evasion – InfoSec - Nov 2024
- Bits and Bytes of Computer Networks – Google - Nov 2024
- Introduction to Python for Cyber Security – InfoSec - Oct 2024