

Ravindra Kumar

POSTGRADUATE · CYBER LAW & INFORMATION SECURITY · IIIT ALLAHABAD

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Education

2022-2024	M.Tech (CLIS)	IIIT, Allahabad	8.55/10.0
2014-2018	B.Tech (CSE)	Government Engineering College, Bikaner	67.9%
2014	Class XII (RBSE)	Maa Bharati. Sr. Sec. School, Kota Rajasthan	58.0%

Work Experience

- GL Bajaj Institute of Technology and Management** ASSISTANT PROFESSOR - CYBERSECURITY & PYTHON Sept 2024 – Present
- Taught **Python programming** (Pandas, NumPy, Matplotlib) and **cybersecurity fundamentals** (digital forensics, threat analysis) to **120+ students**, raising average assessment scores by **25%**
 - Transformed **Algorithms** course by embedding **cybersecurity case studies** (DDoS mitigation, SQL injection prevention), with student feedback showing **30% higher engagement** and **80% satisfaction** in post-course surveys
 - Supervised 15+ academic projects combining machine learning and cybersecurity

Publication

- Abhishek Vaish, **Ravindra Kumar**, Bobek Samo, Sternad Simona (2024). **“Development of Cyber Security Platform for Experiential Learning”**, Journal of Cybersecurity Education, Research, and Practice. (2024.10.62915/2472-2707.1184)

Research & Projects

- ShadowShield - Advanced Real-Time Firewall with Anomaly Detection** Feb 2025
- Developed real-time firewall with Deep Packet Inspection (DPI) and anomaly detection, improving threat detection by **40%** and reducing response time by **30%** in simulated attacks (tested with Kali Linux/MITRE ATT&CK).
 - Implemented GeoIP tracking with automated rules that blocked 100% of DDoS attacks and port scans in pentests
 - Designed for future integration with Splunk/SIEM and machine learning (ML) threat prediction modules.
- System Design Analysis for Development of Cyber Security Education Platform** THESIS UNDER DR. ABHISHEK V. Mar. 2023 - Jun. 2024
- Built **CySecLearn** - a machine learning (ML)-powered cybersecurity education platform with collaboration tools, achieving 92% engagement and 4.1/5 satisfaction from 200+ students
 - Implemented Technology Acceptance Model (**TAM**) testing, demonstrating 35% higher retention and 50% improvement in practical skills versus traditional methods
 - Deployed across 3 university courses after iterative improvements based on user feedback analytics
- Web Security: Cyber Security Experiment Test Bag** PROJECT WITH DR. ABHISHEK VAISH Jan. 2023 - Jun. 2023
- Curated **Acunetix/Nikto scanner** detecting 15+ OWASP-critical flaws in production portals
 - Documented exploitable threats with remediation timelines, accelerating fixes by **60%** via management escalation
 - Delivered executive threat reports that drove 40% security improvement (validated by pentests)

Internship & Certification

- Completed *Cisco Networking Cert.*, covering core networking concepts, security, and assessment. Feb. 2025
- Completed *Google Cybersecurity Professional Cert.*, focusing on SIEM, incident management, network security, threat detection, risk assessment, and security operations. Aug. 2024
- Completed 2 Months *Internship at ISRO Jodhpur* on Project “Sentiment Analysis of Crowdsourced Data”. Jun. 2017 - Jul. 2017

Positions of Responsibility

- Conference Involvement**
- Committee Member & Reviewer of 3rd International Conference on Disruptive Technologies (ICDT-2025) Jan. 2025 - Mar. 2025
- Teaching Assistant**
- Information Security Law & Regulation*: Conducted hands-on sessions, seminars on ISG framework & IT Acts. Jan. 2024 - Jun. 2024
 - Network Security*: Designed attack-defense-based network simulations using GNS, Kibana, & DVWA tools. Jul. 2023 - Dec. 2023

Skills

Programming	C/C++, Python, React, Socket Programming, x86 Assembly	IDE	VS Code, IDLE, Dev C++
Security Tools	SIEM, Wireshark, ELK Stack, Burpsuite, Acunetix, NIKTO	Utilities	Vim, Git, TeX

Extra Curricular Activity

- Led **Effervescence'24** (IIIT-A's annual tech fest), managing crowd control and safety protocols Apr. 2024
- Volunteered at **ISEC'23** (IEEE conference) hosted by **IIIT Allahabad**. Oct. 2023