CYBERSECURITY AND ETHICAL HACKING WITH AI

About PwC Academy

PwC Academy is a learning and education service offering of PwC India. Our aim is to create a vibrant community of expert professionals well versed in their respective areas. We create impactful interventions across the skilling ecosystem.

PwC Academy provides diverse training courses based on the best practices of PwC's global network of firms bringing real-life business experiences into the classroom. Based on our extensive know-how, we seek to deliver unique learning experiences that are stimulating, engaging and valuable, and which continue to have an impact long beyond the completion of the course. Our subject matter experts help to make learning more effective and practical.

PwC Academy focuses on improving the knowledge, skills, competence and expertise of professionals and students by offering diverse learning programmes in areas such as tax, financial accounting and reporting, risk, governance and digital. These programmes are tailored to learning needs and based on our deep subject matter knowledge and global experience. Thus, they can help organizations and individuals meet the challenges arising in the rapidly changing business landscape of corporate India.

Our instructors are experienced practitioners who have undergone extensive training and actual practice in the subject. They have worked with leading organizations around the world and advised them on a wide range of complex matters.

Why Choose This Course?

- **Certification from a PwC Academy:** Receive a certification of completion from PwC Academy, recognizing your achievement.
- **Future-Proof Career Gateway:** Launch into a high-growth, future-proof career with in-demand skills.
- **Advanced Curriculum:** Access cutting-edge content, simulations, and evaluations focused on real-time project implementation.
- **Case-Based Learning:** Engage in real-world, case-based sessions that connect theory with practical business challenges.
- **World-Class Faculty:** Learn directly from PwC Academy's top-tier faculty and other industry experts.

What Will You Learn?

With cyber attacks rising globally and AI changing how systems are attacked and defended, this program prepares students to become next-generation cybersecurity professionals. You'll master ethical hacking, network defense, secure coding, and AI-enabled threat detection and apply your learning in live labs and simulations. The curriculum is designed to bridge industry talent gaps, empower hands-on learning, and equip learners with AI-powered cybersecurity skills rarely taught in traditional programs. Furthermore, an open forum session will be conducted to address participant queries and facilitate discussion on topics covered throughout the training program. This session will be led by PwC India experts and is intended to reinforce learning and clarify concepts as part of the curriculum.

Toolkit

Course Details

Course Duration	Time Commitment	Certification
4 Months	8-10 hours per week	From PwC Academy

Course Curriculum

Module 1: Cybersecurity Foundations & Evolving Threat Landscapes

- History, terminology & career tracks in cybersecurity
- Types of attacks: phishing, malware, ransomware, social engineering
- Cyber kill chain & MITRE ATT&CK framework
- Introduction to adversarial AI and attack simulation using LLMs
- Hands-on Project: Build your own threat map using open-source data

Module 2: Ethical Hacking, Footprinting & Vulnerability Assessment

- Kali Linux, Metasploit, Nmap, Burp Suite
- Scanning networks, enumerating systems, and finding open ports
- Vulnerability scanning tools: Nessus, OpenVAS
- OWASP Top 10 threats
- Using AI for automated vulnerability classification and risk scoring
- Hands-on Project: Recon and vulnerability report on a simulated organization

Module 3: Advanced Network Security & Incident Response

- Firewalls, IDS/IPS, VPNs, and honeypots
- Detecting and responding to intrusions
- Log analysis and SIEM (Security Information and Event Management)
- Building an AI-assisted SOC (Security Operations Center) simulator
- Hands-on Project: Configure Snort, use Splunk + AI alerts

Module 4: Secure Coding & Application Security

- Threat modeling & secure software design
- Code vulnerabilities (SQLi, XSS, CSRF, etc.)
- Static & dynamic code analysis tools
- Using AI to scan and refactor insecure code (GitHub Copilot, DeepCode)
- Hands-on Project: Audit and secure a buggy web application

Module 5: AI-Driven Cybersecurity: Detection, Automation & Defense

- Introduction to machine learning in cybersecurity
- Anomaly detection with AI (unsupervised learning)
- AI in phishing, spoofing, and spam detection
- Generative AI for penetration testing automation
- Agentic AI: Creating autonomous agents for continuous network monitoring
- Hands-On Project: Train an AI model to detect unusual traffic patterns

Module 6: Cyber Law, Compliance & Digital Forensics

- Indian Cyber Law, IT Act, GDPR, HIPAA
- Risk frameworks: NIST, ISO 27001
- Chain of custody, evidence handling
- Forensic tools: Autopsy, FTK Imager, Wireshark
- AI for evidence triage and pattern recognition in large datasets
- Capstone Project

Due to the evolving nature of the industry expectations and partner institute feedback, some syllabus aspects may change. Any updates will be communicated during the Inauguration Session(s) or at the start of the relevant module

Meet our Instructor Team

Ankit Goel

Ankit has over fourteen years of experience in Cybersecurity and Risk Consulting practice in India. His expertise includes Vulnerability Assessment, Penetration Testing, Web and Mobile Application Security, Network VAPT, Automated Code Review, API, and Web Services security. He excels in Red Teaming, Ethical Hacking, Threat Modeling, and Third Party Compliance Audits, working with clients across sectors like IT Security, E-commerce, Health, Government, Finance, Insurance, Automotive, and Energy.

Ankit's skill in identifying vulnerabilities is proven by his contributions to finding bugs in Facebook, Microsoft, Amazon, and Google Duo, earning him a spot in Google's Hall of Fame. His creation of zero-day exploits, such as the Sandworm exploit, highlights his advanced skills and understanding of threat landscapes.

As a qualified facilitator, Ankit conducts skilled workshops and corporate role plays, effectively training others. He ensures timely patch implementation and offers practical security solutions. His comprehensive approach and strong communication make him a valuable mentor.

Mansi Srivastava

Mansi has over thirteen years of experience in the cybersecurity domain, working with diverse clients, including government entities and financial institutions, across sectors like telecom, e-commerce, and health. Her broad perspective on cybersecurity challenges and solutions is built on her extensive career and collaboration with various industries.

Her expertise in vulnerability assessments, penetration testing, and integrating security controls throughout the SDLC lifecycle aligns with key training topics like Ethical Hacking and Secure Coding. Mansi excels in web and mobile application security, API security, and threat modeling, which are crucial for advanced network security and incident response strategies.

Known for her effective communication and leadership skills, Mansi delivers tailored solutions and ensures compliance with legal standards through her awareness programs. Her comprehensive approach to cybersecurity makes her a valuable mentor, enhancing clients' understanding and application of security principles and equipping them to tackle evolving threats confidently.

G Karthik

Karthik is a seasoned professional in the cybersecurity practice, bringing over eight years of experience to the field. As an OSCP-certified professional, he specializes in cloud and network security, offering deep insights into foundational concepts and the latest industry trends.

Karthik's track record includes delivering impactful security programs across sectors like Government, Health, Insurance, and Banking. He excels in risk assessments, incident management, and compliance evaluations, translating these skills into practical strategies for ethical hacking, vulnerability assessment, and incident response.

Committed to advancing security practices, Karthik integrates AI into cybersecurity frameworks, providing innovative perspectives on detection, automation, and defense mechanisms. His mentorship combines theoretical knowledge with practical application, preparing participants to tackle current and future cybersecurity challenges confidently

Admission Process

Clear Qualifier Test
Clear the qualifier test to be eligible for the program.

Complete Counselling
Only shortlisted candidates go through the counselling process.

Start Learning
Learn from India's top educators and stand out from the crowd.

Fees Structure

Qualifier Test Fee (Non-Refundable)	**₹99**

	Option 1	Option 2
	Upfront	**EMI** (Through our NBFC partners)
Secure Seat Fee (Non-Refundable)	₹4,000	₹4,000
Programme Fee (Non-Refundable)	₹31,000	₹10,953 x 3 months
Total	₹35,000*	₹36,859*

**GST at 18% extra, as applicable*

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