QUANTUM-AI
THE SCHOOL OF DATA AND AI

ETHICAL HACKING

PROFESSIONAL TRAINING PROGRAM

The Ethical Hacking Professional Training Program is designed to equip students with practical skills to identify, analyze, and prevent cyber security threats. This comprehensive course covers network security, penetration testing, vulnerability assessment, web application security, system hacking, malware analysis, and social engineering. Participants will learn to use industry-standard tools like Kali Linux, Metasploit, Nmap, and Wireshark through hands-on lab sessions. The program focuses on real-world attack simulations and defensive strategies to strengthen organizational security. Ideal for IT students and professionals, this training prepares learners for global certifications and careers in cyber security, penetration testing, and information security management.



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WHY QUANTUMAI?

Quantum AI delivers a practical, job-focused curriculum with hands-on projects using real datasets. Led by industry experts, the program provides exposure to modern tools and cloud technologies, making it suitable for both beginners and professionals looking to grow or transition into ETHICAL HACKING PROFESSIONAL TRAINING PROGRAM

COURSE OVERVIEW

The Ethical Hacking Professional Training Program is designed to equip learners with practical skills to identify, analyze, and secure vulnerabilities in modern IT systems. This course covers network security, penetration testing, web application security, system hacking, malware analysis, and cybersecurity laws. Students gain hands-on experience using industry-standard tools like Kali Linux, Metasploit, and Wireshark in real-time lab environments. The program emphasizes ethical practices, risk assessment, and defensive strategies to protect organizations from cyber threats. Ideal for IT students and professionals, this training prepares participants for globally recognized cybersecurity certifications and high-demand careers in information security and cyber defense.



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WHAT YOU WILL LEARN

COURSE MODULES

Introduction to Cyber Security & Ethical Hacking

- Basics of Cyber Security
- Types of Hackers
- Cyber Laws & Ethics
- Networking Fundamentals
- Introduction to Linux for Hackers

Footprinting & Reconnaissance

- Information Gathering Techniques
- Open Source Intelligence (OSINT)
- Whois & DNS Analysis
- Social Engineering Concepts

Scanning & Enumeration

- Network Scanning Techniques
- Port Scanning
- Vulnerability Scanning
- Enumeration Techniques

System Hacking

- Password Cracking Concepts
- Privilege Escalation Basics
- Malware Concepts
- Keyloggers & Backdoors (Educational Purpose Only)

Web Application Security

- Web Application Architecture
- SQL Injection Basics
- Cross-Site Scripting (XSS)
- Authentication & Session Attacks
- OWASP Top Vulnerabilities Overview

Wireless Network Security

- Wi-Fi Security Protocols
- Wireless Attacks Overview
- Securing Wireless Networks

Penetration Testing Methodology

- Penetration Testing Phases
- Exploitation Basics
- Post-Exploitation Concepts
- Report Writing & Documentation

Cryptography Basics

- Encryption & Decryption Concepts
- Hashing Algorithms
- Digital Signatures
- Public Key Infrastructure (PKI)

Security Tools & Practical Labs

- Network Analysis Tools
- Vulnerability Assessment Tools
- Web Security Testing Tools
- Real-Time Lab Practice

Live Project & Career Guidance

- Complete Vulnerability Assessment Project
- Penetration Testing Report Preparation
- Resume Preparation for Cyber Security Roles
- Interview Preparation & Mock Interviews

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BUILD SCALABLE APPLICATIONS

LEARN ETHICAL HACKING WITH QUANTUMAI

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