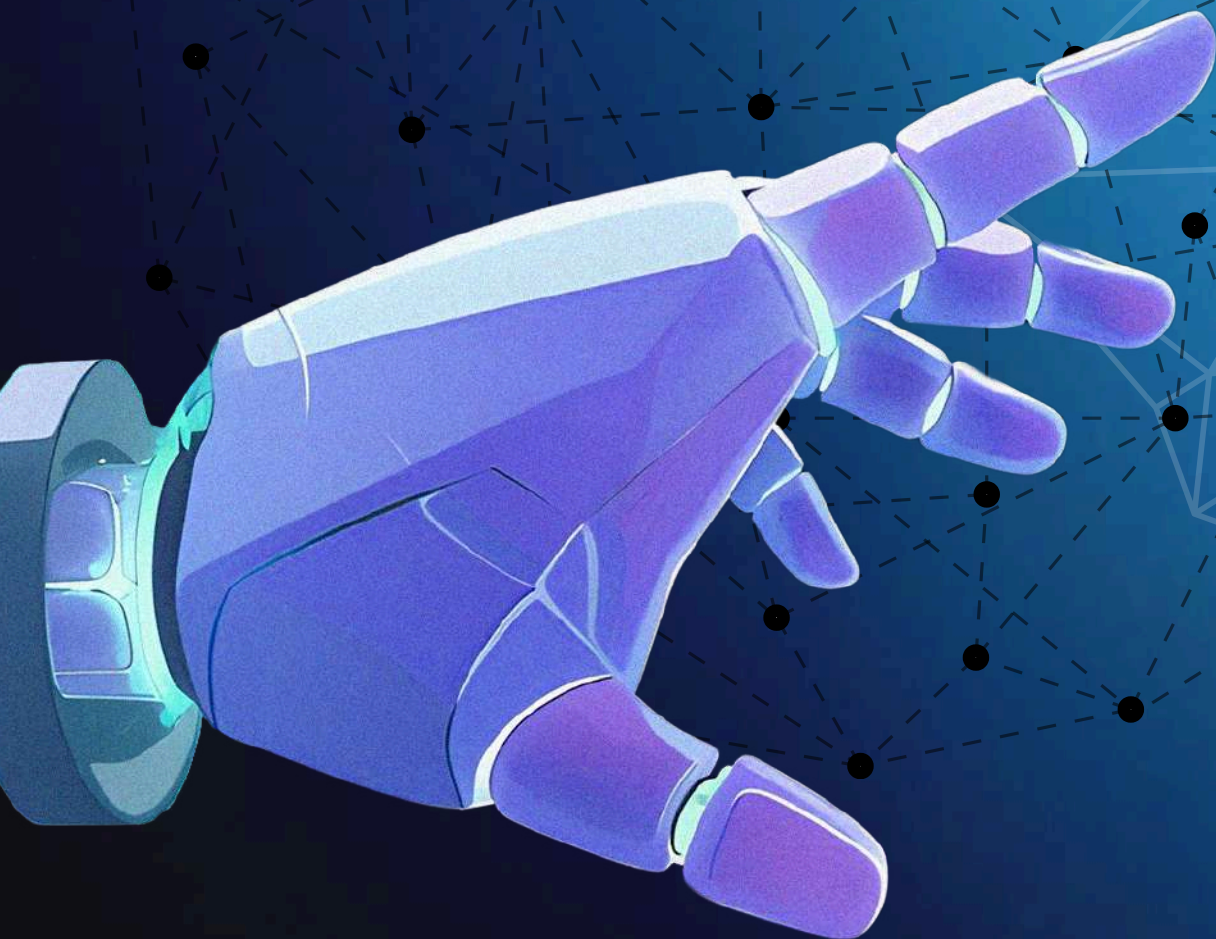




# Cyber Security



# About Us

Learnify is the MSME and Startup India verified destination for professionals in product, growth, design, management, business, tech, and data. It provides curated, hands-on learning from industry experts to instantly enhance skills, foster innovation, and empower you within a global community.



# Our Vision & Mission


Learnify, MSME and Startup India verified, teaches millions technical skills with expert-led, hands-on courses for career growth.

## VISION



The vision of Learnify is to revolutionize education through the seamless integration of technology, creating a direct path from skill acquisition to job readiness.

## MISSION



Our mission is to provide personalized and engaging learning experiences for students of all ages by leveraging digital tools, virtual platforms, and data-driven insights to ensure effective skill mastery and career readiness.

# Cyber Security



## COURSE CURRICULUM

1.

### INTRODUCTION TO CYBER SECURITY

- What is Cyber Security?
- Importance & Applications Types of Cyber Threats & Attacks
- CIA Triad: Confidentiality, Integrity, Availability Cyber Laws
- Ethical Hacking Overview



## 2. NETWORKING ESSENTIALS FOR SECURITY

- Basics of Computer Networks & OSI Model
- IP Addressing, DNS, Firewalls, and VPNs
- Network Devices: Routers, Switches, and Gateways
- Hands-on: Packet Analysis using Wireshark



# Cyber Security

## 3.

### OPERATING SYSTEMS & SECURITY

- Windows and Linux Fundamentals
- File Systems, Permissions, and Command-Line Tools
- Securing User Accounts and Data
- Hands-on: Configuring System Firewalls



## 4.

## WEB TECHNOLOGIES & VULNERABILITIES

- Basics of Web Applications & HTTP Protocol
- Common Web Vulnerabilities (SQLi, XSS, CSRF)
- OWASP Top 10 Overview
- Hands-on: Testing Website Vulnerabilities (Simulated Labs)



## 5.

## ETHICAL HACKING FUNDAMENTALS

- Phases of Ethical Hacking: Reconnaissance → Exploitation
- Footprinting, Scanning, and Enumeration
- Exploiting Common Vulnerabilities
- Hands-on: Scanning and Exploiting Lab Systems



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6.

## NETWORK SECURITY & DEFENSE

- Firewall Configuration & Intrusion Detection Systems (IDS/IPS)
- Secure Network Architecture Design
- VPN Security and Packet Filtering
- Hands-on: Configuring Firewalls and IDS



## 7.

### INTRODUCTIO CRYPTOGRAPHY & DATA PROTECTION TO 3D MODELING

- Encryption, Hashing, and Digital Signatures
- SSL/TLS, Certificates, and Key Management
- Steganography and Cryptanalysis
- Hands-on: Encrypting and Decrypting Data using Python

## 8.

## MALWARE ANALYSIS & FORENSICS

- **Types of Malware: Viruses, Worms, Trojans, Ransomware**
- **Memory Forensics & File Analysis Tools**
- **Identifying and Removing Malware**
- **Hands-on: Analyzing Malware Behavior in Sandbox**



**9.**

**CLOUD SECURITY**

- **Cloud Platforms: AWS, Azure, GCP Security Models**
- **Identity & Access Management (IAM)**
- **Securing Cloud Data & Applications**
- **Hands-on: Cloud Security Simulation Project**



## 10. WEB APPLICATION PENETRATION TESTING

- **Advanced Vulnerability Scanning**
- **Burp Suite, OWASP ZAP, and Metasploit Framework**
- **Exploit Development Basics**
- **Hands-on: Web App Penetration Test Lab**



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11.

## INCIDENT RESPONSE & SECURITY OPERATIONS

- SOC (Security Operations Center) Workflow
- Incident Detection, Containment & Recovery
- SIEM Tools (Splunk, ELK Stack) Overview
- Hands-on: Simulating an Incident Response Scenario



## 12.

## CYBER THREAT INTELLIGENCE & RISK MANAGEMENT

- Threat Modeling & Risk Assessment
- Understanding MITRE ATT&CK Framework
- Real-time Threat Monitoring & Reporting
- Hands-on: Creating a Threat Intelligence Dashboard

## 13.

## ADVANCED CAPSTONE PROJECTS

- Penetration Testing on a Simulated Network
- Ransomware Detection & Response System
- Phishing Attack Simulation & Defense
- SIEM Log Analysis & Threat Hunting Dashboard
- Cloud Infrastructure Security Audit



**14.**

**RESUME BUILDING & PROFILE OPTIMIZATION**

- **Crafting an ATS-friendly resume tailored to tech roles**
- **Optimizing LinkedIn & GitHub profiles**
- **Writing impactful career objectives and summaries**



**15. APTITUDE & LOGICAL REASONING**

- **Quantitative Aptitude: Speed, Accuracy & Problem Solving**
- **Logical Reasoning: Puzzles, Patterns & Data Interpretation**
- **Mock Tests and Time Management Strategies**



16.

## COMMUNICATION & SOFT SKILLS

- **Verbal Communication: Public Speaking & Presentation Skills**
- **Email Etiquette and Business Communication**
- **Teamwork, Leadership, and Professional Behavior**



17.

## TECHNICAL INTERVIEW TRAINING

- Core DS Interview Concepts & Q&A Practice
- Hands-on Coding Interview Sessions (Python & Data Structures)
- Whiteboard Problem Solving & Project Discussion Tips



18.

## HR & BEHAVIORAL INTERVIEW PREPARATION

- Understanding HR Questions & Framing STAR-Method
- Answers Mock HR Interviews with Personalized Feedback
- Building Confidence and Positive Body Language



19.

## INTERNSHIP & JOB ASSISTANCE

- Access to Learnify's Hiring Partner Network
- Internship Opportunities with EdTech & AI Startups
- Job Alerts, Career Counseling & Placement Support



**20.**

**CERTIFICATION & CAREER SUPPORT**

- **Learnify Certificate of Completion**
- **MSME & Startup India Certification**
- **Resume Building & LinkedIn Optimization**



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# Our Alumni Work At



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# Contact Us



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