



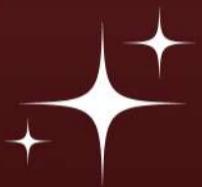
ShikshaVertex

# Cyber Security

## Your Path to Cyber Security Mastery



SOLO SPRINT



LIVE EDGE



CAREER EDGE



**Added Extra Credentials From Leaders Like IBM**

**(Give The Exam. Get Certified. Stand Out.)**

**IBM**  
SkillsBuild

**#startupindia**



**Skill India**  
कौशल भारत - कुशल भारत



# About ShikshaVertex

## Shaping Skills. Elevating Careers

ShikshaVertex is a next-generation EdTech startup committed to transforming careers through powerful, practical upskilling. In an ever-evolving job market, we bridge the gap between academic knowledge and industry-ready skills.

Our mission is to empower students, job-seekers, and professionals with the tools they need to succeed — from foundational skills to advanced specializations in high-demand fields.

We believe that education is not just about learning — it's about evolving. With industry-aligned curriculum, expert mentorship, and outcome-driven training, ShikshaVertex is where ambition meets execution.

### Career-Focused Upskilling



### Mentor Support



### Industry-Relevant Curriculum



### Flexible Learning



### Hands-on Learning



### Certification & Recognition





## Why ShikshaVertex is Different From Rest?

### Built Different: Our Unique Edge



#### Outcome-Driven Learning

Every course is designed with clear career outcomes and job-readiness as the end goal.



#### Industry-Curated Curriculum

Programs are co-created with industry professionals to stay aligned with current and future skill demands



#### Soft Skills Integration

We don't stop at technical skills — communication, leadership, and interview readiness are built in.



#### Mentorship That Matters

Direct access to mentors who are real-world professionals, not just instructors.



#### Real-World Projects

Learners build a portfolio of hands-on projects that showcase practical expertise.



#### Placement Support

End-to-end job assistance, including resume building, mock interviews, and employer connections.

While many EdTech platforms offer courses, ShikshaVertex is built around outcomes. We don't just teach — we transform.

Our programs are meticulously designed to go beyond theoretical knowledge and focus on practical, real-world skills that employers actually look for.

We blend cutting-edge curriculum with mentorship, hands-on learning, and career development, making sure every learner not only learns but levels up — personally and professionally. At ShikshaVertex, we believe in learning that leads to earning.



## Our Top Recruiters

accenture

Google

Microsoft

ORACLE

Tech  
Mahindra

Deloitte.

tcs  
TATA  
CONSULTANCY  
SERVICES

amazon

fractaboo  
INTELLIGENCE FOR IMAGINATION

IBM.

HCL

BOSCH

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Leaders



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Portfolio

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# Scope of Cyber Security



**12,000 +**

Indian businesses are present on LinkedIn



**\$ 200 billion**

Industry in India by 2025



**75% CFOs**

are set to spend more on cyber security



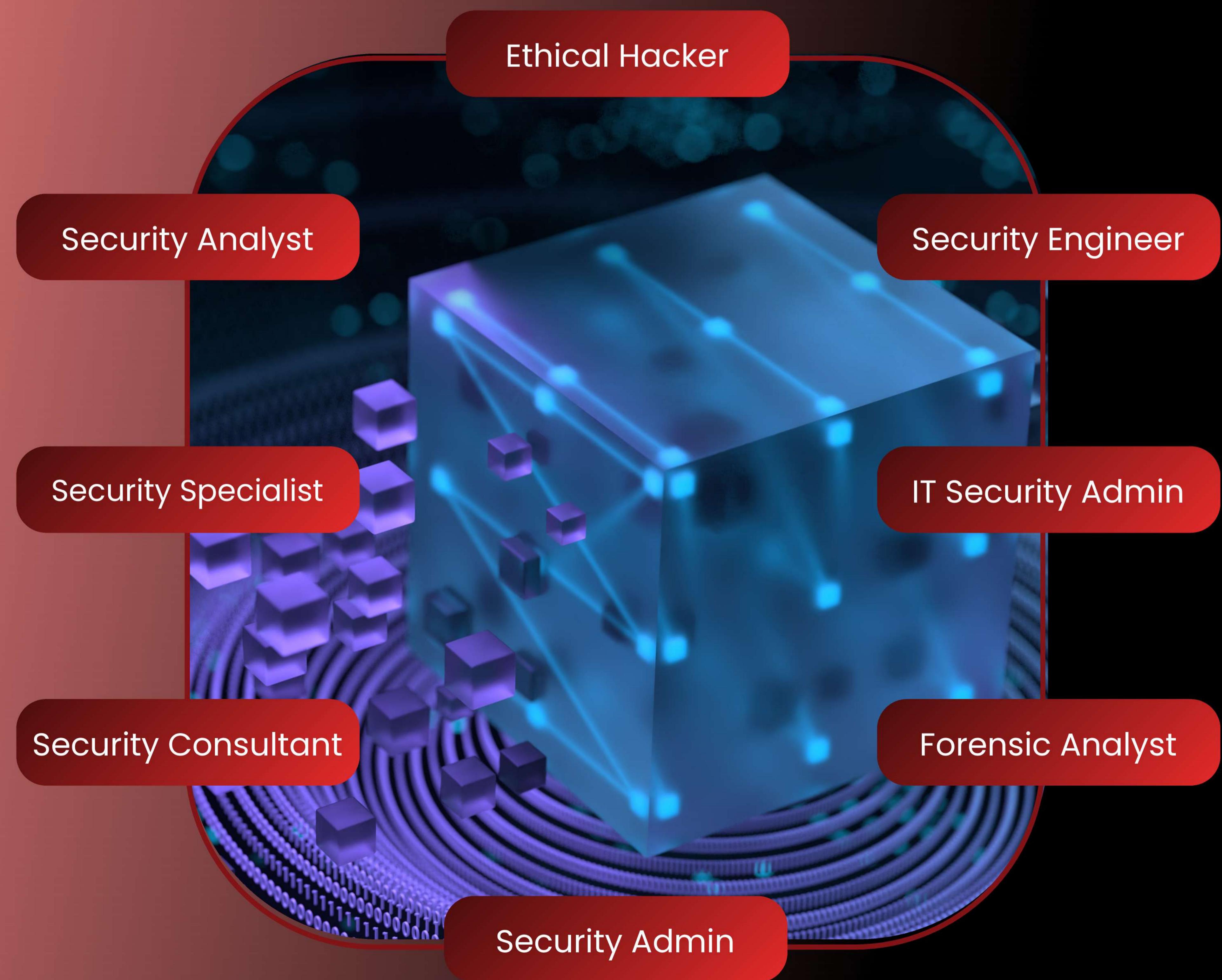
## CYBER SECURITY

Step into the future with cyber security – where innovation meets opportunity.

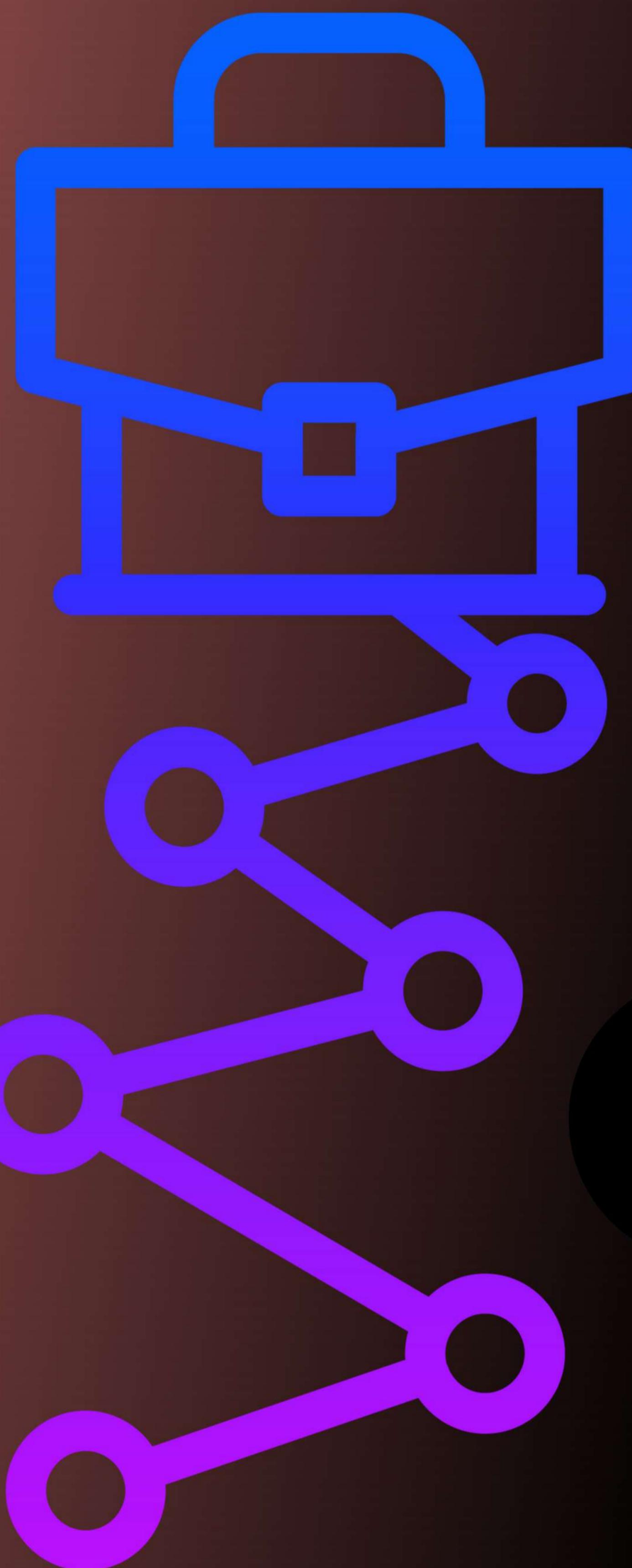
Automate tasks, solve real-world problems, and lead in tomorrow's world.

Join Cyber Security today and be part of the revolution shaping our future.

# Here is all the **Career Fields** you can Excel at



Here is how your **Career Trajectory** will look like





# 1

## Introduction to Cybersecurity & Operating Systems Security

### Introduction to Cybersecurity

- ✓ Definition, Importance, and Scope of Cybersecurity
- ✓ Types of Cyber Threats (Malware, Phishing, DDoS, Ransomware, Insider Threats)
- ✓ CIA Triad (Confidentiality, Integrity, Availability)
- ✓ Cybersecurity Ethics, Principles, and Best Practices

### Introduction to Linux

- ✓ Basic Linux Commands
- ✓ Networking Commands (ping, netstat, ifconfig, traceroute)
- ✓ Service and Log Management
- ✓ System Administration Commands
- ✓ Linux File System and Directories

### Introduction to Windows

- ✓ Access Control Types, Permissions, and User Account Control (UAC)
- ✓ Windows Firewall & Windows Defender
- ✓ Windows Remote Management (RDP)
- ✓ Basic CMD Commands and Batch Scripting
- ✓ Introduction to PowerShell
- ✓ Using CMD & PowerShell for System Administration and Security Tasks



2

## Networking & Ethical Hacking Fundamental

### Introduction to Networking

- ✓ Types of Networks (LAN, WAN, VPN, etc.)
- ✓ Network Topologies
- ✓ Network Protocols & Ports (TCP/IP, HTTP, HTTPS, DNS)
- ✓ IP Addressing & Subnetting Basics
- ✓ Firewalls and Basic Configuration

### Ethical Hacking Essentials

- ✓ Footprinting, Reconnaissance, and Enumeration
- ✓ Vulnerability Assessment & Reporting
- ✓ System Hacking: Windows and Linux
- ✓ Password Cracking & Hashing
- ✓ Wireshark and Network Testing
- ✓ Wireless Network Hacking
- ✓ Digital Forensics Basics
- ✓ Cloud Security Overview (AWS / Azure)
- ✓ TOR, Anonymity & Proxy Services



3

## Web Application Security & Penetration Testing

### Web Application Security Fundamentals

- ✓ Introduction to Web Hacking
- ✓ Understanding HTTP/S and Web Requests
- ✓ Introduction to Burp Suite
- ✓ Fuzzing and Directory Enumeration
- ✓ Subdomain Enumeration
- ✓ Authentication Bypass Technique

### Exploitation & OWASP Top 10 (2 Hours)

- ✓ File Inclusion Vulnerabilities (LFI/RFI)
- ✓ File Upload Vulnerabilities
- ✓ Cross-Site Scripting (xss)
- ✓ Command Injection
- ✓ SQL Injection
- ✓ Overview of OWASP Top 10 and Mitigation



# 4

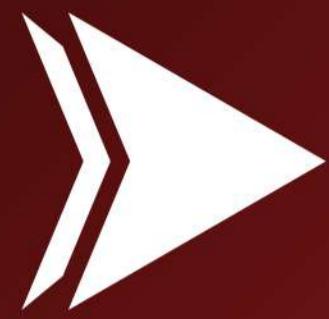
## SOC, SIEM, and Red/Blue Team Operations

### SOC and SIEM Fundamentals

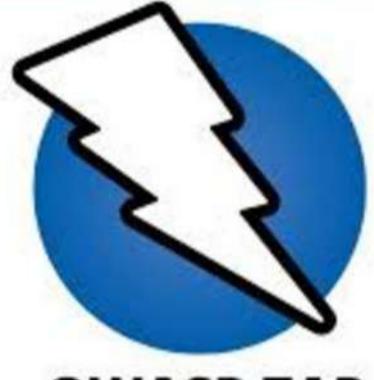
- ✓ Introduction to Security Operations Center (SOC)
- ✓ Understanding SIEM (Security Information and Event Management)
- ✓ Tools Overview: Splunk, ELK Stack, Wazuh
- ✓ IDS, Firewalls, and Honeypot Configuration
- ✓ Monitoring and Alert Management
- ✓ Documenting & Reporting Security Incidents

### Red/Blue/Purple Team Exercises & Offensive Penetration Testing

- ✓ Red Team (Offensive Testing)
- ✓ Blue Team (Defensive Response & Monitoring)
- ✓ Purple Team (Collaboration & Continuous Improvement)
- ✓ Offensive Penetration Testing
- ✓ Attacking Real-World Vulnerable Services
- ✓ Web Application Vulnerability Testing
- ✓ Anonymity, Dark Web, and Secure Communication
- ✓ Security Checklists for Auditing & Testing



## Tools and Technologies you'll Learn



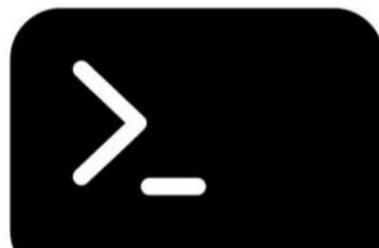
OWASP ZAP



python™



NumPy



PowerShell



Burp Suite



NMAP



Metasploit





## Minor Projects :

Phishing URL Detection



Detect malicious or phishing URLs using machine learning or rule-based filtering.

Network Packet Sniffer



Capture and analyze network packets to identify suspicious activity.

Secure Chat Application



Implement end-to-end encryption in a simple chat app.



## Major Projects :

AI-Based Malware Detection



Use ML models to identify malware signatures from file metadata or behavior.

Secure Cloud Data Storage System



Encrypt and store data in the cloud with role-based access control.

Digital Forensics Analysis Tool



Analyze disk images, log files, and deleted data to trace cybercrimes..



## Showcase your Learning Journey

### CERTIFICATE OF INTERNSHIP



ShikshaVertex

This Certificate is proudly presented to

**ROHAN RATHORE**

In recognition of exceptional performance, dedication, and outstanding contribution during the **Internship program at ShikshaVertex**.

Your enthusiasm for learning, consistent effort, and commitment to excellence have set a remarkable example for others. Through your work, you have demonstrated creativity, professionalism, and a passion for growth that align perfectly with the values of ShikshaVertex.

We commend your achievements and wish you continued success in all your future endeavors.

Date

Signature(Academic Head)



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**Certificate of Completion  
from ShikshaVertex**

Certificate of Internship  
from ShikshaVertex

### CERTIFICATE OF TRAINING



ShikshaVertex

This Certificate is proudly presented to

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In recognition of exceptional performance, dedication, and outstanding contribution during the **Internship program at ShikshaVertex**.

Your enthusiasm for learning, consistent effort, and commitment to excellence have set a remarkable example for others. Through your work, you have demonstrated creativity, professionalism, and a passion for growth that align perfectly with the values of ShikshaVertex.

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