



# QUILLANCE INFOTECH PVT LTD.

## Cyber Security

The Quillance Cybersecurity Program is a complete beginner-to-advanced training program designed to help learners master cybersecurity fundamentals, ethical hacking, network security, penetration testing, cloud security, digital forensics, and modern cyber defense techniques used by organizations and security professionals worldwide.



# Program Overview

---

## What You Will Learn

- Understand cybersecurity principles and threat landscapes
- Learn ethical hacking and penetration testing techniques
- Secure networks, systems, and web applications
- Detect vulnerabilities and perform security assessments
- Understand cloud security and digital forensics basics
- Work with real-world cybersecurity tools and workflows

---

## Career Opportunities

After completing this program, learners can apply for roles such as:

- Cybersecurity Analyst
- Ethical Hacker
- Penetration Tester
- Security Operations Center (SOC) Analyst
- Information Security Associate
- Cybersecurity Inter

# Live Projects You'll Build

---

- **Project 1 – Network Vulnerability Assessment**

Analyze systems and identify common security vulnerabilities.

- **Project 2 – Website Security Testing**

Perform security checks and identify web application weaknesses

- **Project 3 – Penetration Testing Simulation**

Conduct ethical hacking simulations and security testing workflows.

- **Project 4 – Security Monitoring Dashboard**

Build monitoring systems for threat detection and incident tracking.

- **Project 5 – Cloud Security & Threat Analysis**

Secure cloud environments and analyze cyber attack patterns.

- **Project 6 – Digital Forensics & Incident Response Project**

Investigate simulated cyber incidents and perform forensic analysis

## MODULE 1

# Cybersecurity Fundamentals

---

### TOPICS COVERED:

- Introduction to Cybersecurity
- Types of Cyber Threats & Attacks
- Networking Fundamentals for Security
- Operating System & System Security Basics
- Cybersecurity Tools & Security Concepts
- Security Policies & Best Practices

### SKILLS GAINED:

- Cybersecurity Fundamentals
- Network Security Basics
- Threat Awareness
- Security Workflow Understanding

### PRACTICAL LEARNING:

- Understand cyber attack techniques
- Learn networking and security basics
- Explore security tools and environments
- Practice safe security workflows

## MODULE 2

# Ethical Hacking & Penetration Testing

### TOPICS COVERED:

- Ethical Hacking Fundamentals
- Information Gathering & Reconnaissance
- Vulnerability Scanning Techniques
- Web Application Security Testing
- Password Security & Authentication Concepts
- Penetration Testing Methodologies

### SKILLS GAINED:

- Ethical Hacking Knowledge
- Penetration Testing Skills
- Vulnerability Assessment Understanding
- Security Analysis Techniques

### PRACTICAL LEARNING:

- Perform vulnerability assessments
- Analyze web application security
- Practice penetration testing workflows
- Understand ethical hacking techniques

## MODULE 3

# Network Security & System Defense

### TOPICS COVERED:

- Network Security Fundamentals
- Firewalls & Intrusion Detection Systems
- Secure Network Configuration
- Malware Analysis Basics
- Security Monitoring & Logging
- Incident Detection & Response Basics

### SKILLS GAINED:

- Network Defense Skills
- Threat Detection Understanding
- Security Monitoring Knowledge
- Incident Response Basics

### PRACTICAL LEARNING:

- Configure network security environments
- Monitor suspicious activities and threats
- Analyze malware behavior safely
- Practice security defense workflows

## Module 4

# Cloud Security & Web Application Security

---

### TOPICS COVERED:

- Cloud Computing Security Fundamentals
- AWS & Cloud Security Basics
- Web Application Security Concepts
- OWASP Security Best Practices
- API Security Fundamentals
- Secure Authentication & Access Control

### PRACTICAL LEARNING:

- Secure cloud environments
- Analyze web application vulnerabilities
- Understand API security workflows
- Explore authentication and access systems

### SKILLS GAINED:

- Cloud Security Knowledge
- Web Security Understanding
- API Security Skills
- Secure System Design Awareness

## Module 4

# Cloud Security & Web Application Security

---

### TOPICS COVERED:

- Introduction to Agentic AI
- Autonomous AI Agent Architecture
- Multi-Agent Collaboration Systems
- Memory, Planning & Reasoning in AI Agents
- Vector Databases & Knowledge Retrieval
- AI Deployment, Scaling & Optimization

### PRACTICAL LEARNING:

- Build autonomous AI agents
- Create multi-agent workflows
- Develop AI reasoning systems
- Deploy scalable AI applications

### ADVANCED CONCEPTS INCLUDED:

- AI Agent Frameworks
- Long-Term Memory Systems
- Autonomous Task Execution
- AI Tool Calling & Integrations
- AI Decision-Making Systems
- Enterprise AI Architecture

### PRACTICAL LEARNING:

- Agentic AI Development
- Multi-Agent System Design
- Autonomous Workflow Engineering
- Advanced AI Application Development

## Module 6

# Live Project & Agile Development

---

### TOPICS COVERED:

- AI Product Development Workflow
- Team Collaboration & Agile Practices
- AI Application Architecture
- AI Testing & Optimization
- AI Deployment & Monitoring
- Final AI Project Presentation

### SKILLS GAINED:

Students will be prepared for AI internships, Generative AI roles, AI automation careers, and Agentic AI development opportunities.

### PRACTICAL LEARNING:

- Work in simulated SOC environments
- Handle security incidents
- Prepare professional security reports
- Collaborate on cybersecurity projects

# Placement & Career Preparation

## TOPICS COVERED:

- Resume Building & ATS Optimization
- LinkedIn & AI Portfolio Development
- AI Interview Preparation
- Aptitude & Logical Reasoning Sessions
- Mock Interviews & HR Preparation
- Career Guidance & Freelancing Strategy

## SKILLS GAINED:

Students will be prepared for AI internships, Generative AI roles, AI automation careers, and Agentic AI development opportunities.

## CAREER SUPPORT INCLUDES:

- AI Resume & Portfolio Reviews
- GitHub & Project Optimization
- Mock Technical Interviews
- Internship & Placement Assistance
- AI Career Mentorship
- Freelancing & Startup Guidance



**QUILLANCE  
INFOTECH PVT LTD.**

# Thank You!!

---



Mail  
[info@quillance.com](mailto:info@quillance.com)



Website  
[www.quillance.com](http://www.quillance.com)