

Since 2007, Making IT Experts & Products

Course: AI for Software Testing

Duration: 60 Hrs (Changeable) | Fees: Individual / Batch

Since 2007, Nestsoft TechnoMaster has been providing training, internships, and services in IT technologies, both online and offline, with the expertise of **over 250 industry experts**. We have delivered internships, training, and seminars to more than 50,000 students, resulting in numerous success stories. **We offer 100% placement support through JobsNEAR.in**

Our Courses/Internship

- Python/Django Fullstack
- Artificial Intelligence
- Machine Learning
- Data Science
- Software Testing (All)
- Wordpress, Woocommerce
- Digital Marketing, SEO
- Php/MySQL, Laravel
- Flutter, Android, IOS
- Asp.net MVC
- Web Design, Javascript
- Angular JS, React JS
- CCNA, MCSA, CCNP
- AWS, GCP, Azure
- Odoo, Salesforce, Sap
- Microsoft Excel
- Ethical Hacking



Syllabus on the Next Page ..



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Introduction

TechnoMaster is a leading provider of software testing training and services. We have designed

Course Syllabus

Month 1: Software Testing Fundamentals & AI Introduction

Introduction to Software Testing

- * Introduction to Software Testing
- * Software Development Life Cycle (SDLC)
- * Software Testing Life Cycle (STLC)
- * Software Testing Principles
- * Manual Testing Fundamentals
- * Test Planning and Documentation
- * Defect Life Cycle
- * Bug Reporting and Tracking

Testing Methodologies

- * Functional Testing
- * Non-Functional Testing
- * Regression Testing
- * Smoke Testing
- * Sanity Testing
- * Integration Testing
- * System Testing
- * User Acceptance Testing (UAT)
- * Agile Testing Methodology

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Test Automation Fundamentals

- * Introduction to Test Automation
- * Automation Testing Benefits
- * Test Automation Frameworks
- * Test Script Development
- * Selenium Automation Overview
- * Web Application Testing
- * API Testing Fundamentals

Introduction to AI in Software Testing

- * Introduction to Artificial Intelligence
- * Role of AI in Software Testing
- * AI-Based Testing Approaches
- * Machine Learning in Quality Assurance
- * Generative AI for Testers
- * AI Testing Tools Overview

Month 2: AI-Powered Testing & Automation

AI-Based Test Case Generation

- * Creating Test Cases Using AI
- * AI-Based Test Scenario Generation
- * Automated Test Data Generation
- * Requirement Analysis Using AI
- * Test Documentation Automation

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- * AI-Assisted Test Planning

AI Testing Tools

- * ChatGPT for Software Testing
- * GitHub Copilot for Test Automation
- * AI Testing Platforms Overview
- * Intelligent Test Execution
- * Self-Healing Test Automation
- * AI-Based Bug Detection

Automation Framework Development

- * Selenium with AI Assistance
- * Automated Web Testing
- * API Testing Automation
- * Test Script Optimization
- * Automated Test Reporting
- * Continuous Testing Workflows

AI in Quality Assurance

- * AI-Based Defect Prediction
- * Risk-Based Testing Using AI
- * Performance Testing with AI
- * Security Testing Overview
- * AI-Driven QA Workflows
- * Continuous Integration and Testing

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Final Projects

- * AI Test Case Generator Project
- * Automated Web Testing Project
- * AI Bug Detection System
- * API Testing Automation Project
- * End-to-End AI Testing Workflow

Tools and Technologies

- * Artificial Intelligence
- * Generative AI
- * ChatGPT
- * GitHub Copilot
- * Selenium
- * Postman
- * JIRA
- * Python
- * Java
- * CI/CD Tools
- * AI Testing Tools

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(Click on Course for more details)

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- Thank You -

N.B: This syllabus is not final and can be customized as per requirements / updates.

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