

SMARTER SOFTWARE TESTING & TEST AUTOMATION WITH AI

Course Code: 840013

AI for Software Testing: Integrate innovative AI-powered tools and techniques into your testing workflow, enhancing the quality and efficiency of your projects.

Learn how artificial intelligence is revolutionizing the software testing process and discover its value in enhancing the efficiency and accuracy of your projects. **Smarter Software Testing with AI: Harness the Power of AI in Your Testing Workflow** is a one-day, hands-on course that covers a wide range of topics, including an introduction to AI in software testing, AI-powered testing tools, test data generation using AI, test case selection, defect prediction, and test automation. You'll gain practical experience with innovative tools such as Selenium, Katalon Studio, Testim, TestProject, and Applitools through engaging labs designed to reinforce your learning.

Throughout the course, you'll explore the advantages of AI-powered testing, learning how AI techniques can improve test data generation, test case selection, and defect prediction. By leveraging AI in these areas, you'll be able to streamline your software testing process and ensure the delivery of high-quality products. You'll also get plenty of hands-on experience by working with cutting-edge tools and techniques. You'll practice generating test data, selecting test cases, predicting defects, and automating tests using AI-powered tools, gaining valuable skills that you can apply to real-world projects.

By the end of this course, you'll have a solid understanding of AI's role in software testing, its benefits, and its practical applications. You'll be equipped with the knowledge and skills to confidently integrate AI-powered tools and techniques into your software testing workflow, ultimately enhancing the quality and efficiency of your projects.

What You'll Learn

Working in an interactive learning environment, led by our engaging OpenAI expert you'll:

- Develop a strong foundation in the basics of artificial intelligence and its application in the software testing process, enabling you to harness its

potential for more efficient and effective testing.

- Gain hands-on experience with leading AI-driven testing tools, such as Selenium, Katalon Studio, Testim, TestProject, and Appliflow, and learn how to choose the right one for your project needs.
- Learn how to create realistic and diverse test data sets using AI, resulting in more comprehensive testing coverage and increased confidence in your software's performance.
- Discover how AI can assist in identifying the most relevant and valuable test cases, ensuring that your testing efforts are focused on areas that truly matter.
- Acquire the skills to leverage AI in identifying potential defects in your software, allowing you to proactively address issues before they become critical problems.
- Enhance your software testing workflow by learning how to implement AI-driven test automation, increasing efficiency, and reducing the time and resources required for manual testing.

Who Needs to Attend

This intermediate-level course is great for:

- Experienced software testers
- QA analysts
- Test automation engineers
- Developers seeking to expand their skill set by incorporating AI-driven testing techniques
- Project managers and team leads looking to improve their team's testing efficiency and effectiveness will also benefit from attending.

Attendees should be comfortable with Python or Java scripting basics for some of the hands-on labs. Non-developers are welcome to follow along with the labs or cut and paste. You should also have some familiarity with the concept of applying AI in business applications. This course does not cover AI essentials.

Prerequisites

In order to gain the most value from this course you should possess the following incoming skills

- Basic understanding of software testing concepts and the software development lifecycle (SDLC):
- Familiarity with basic Python or Java basics (for the scripting part of the labs)
- Basic understanding of Artificial Intelligence applications in business

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VIRTUAL CLASSROOM LIVE

\$2,854 CAD

2 Day

Virtual Classroom Live Outline

1. **Introduction to AI in Software Testing**

- What is AI in Software Testing?
- Overview of AI-powered Testing Tools
- Advantages of AI-powered Testing
- Common Use Cases of AI in Software Testing
- Lab: Installing and Configuring an AI-powered Testing Tool

2. **Test Data Generation using AI**

- Overview of Test Data Generation
- Use of AI in Test Data Generation
- Techniques for Test Data Generation using AI
- Advantages of AI in Test Data Generation
- Lab: Generating Test Data using AI; using Testim, TestProject, Applitools

3. **Test Case Selection using AI**

- Overview of Test Case Selection
- Use of AI in Test Case Selection
- Techniques for Test Case Selection using AI
- Advantages of AI in Test Case Selection
- Lab: Learn how to select test cases using AI-powered tools; using Testim, TestProject, Applitools

4. **Defect Prediction using AI**

- Overview of Defect Prediction
- Use of AI in Defect Prediction
- Techniques for Defect Prediction using AI
- Advantages of AI in Defect Prediction
- Lab: Predicting Defects using AI; using Testim, TestProject, Applitools

5. **Test Automation using AI**

- Overview of Test Automation

- Use of AI in Test Automation
- Techniques for Test Automation using AI
- Advantages of AI in Test Automation
- Lab: Automating Tests using AI; possibly using Selenium, Katalon Studio, Testim, TestProject, AppliTools

May 1 - 2, 2025 | 10:00 AM - 6:00 PM EDT

Jun 26 - 27, 2025 | 10:00 AM - 6:00 PM EDT

Aug 21 - 22, 2025 | 10:00 AM - 6:00 PM EST

Oct 23 - 24, 2025 | 10:00 AM - 6:00 PM EST

Dec 11 - 12, 2025 | 10:00 AM - 6:00 PM EST



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PRIVATE GROUP TRAINING

2 Day

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