Applying AI to Web Security (TTAI2835)

Category: AI, Data & Analytics | **Vendor:** Trivera Tech

Duration: 8.00 hours (1 days) **6.5 CPD Hours** **Rating:** ⭐ 4.6 (5,878 reviews)

Course Information

Delivery Format: Instructor Led - Online

Course Overview

AI Secure Programming for Web Applications / Technical Overview®is a one-day, technical primer geared for developers and tech-enthusiasts eager to explore AI's potential to boost security in their web development projects. The value of applying AI to web security is vast. By leveraging AI techniques, you can devise proactive defenses, anticipate potential security breaches, and ensure a more robust digital framework.

About This Course

AI Secure Programming for Web Applications / Technical Overview is a one-day, technical primer geared for developers and tech-enthusiasts eager to explore AI's potential to boost security in their web development projects. The value of applying AI to web security is vast. By leveraging AI techniques, you can devise proactive defenses, anticipate potential security breaches, and ensure a more robust digital framework. The skills acquired will allow you to build secure AI-driven web applications that are less prone to breaches and hacks®®an asset to any organization. You can apply your newfound knowledge to a wide array of projects, from designing resilient web applications to improving the security of existing digital infrastructures.

The course begins with an introduction to AI and secure coding, offering a solid foundation to build upon. It then delves into the OWASP Top Ten 2021, giving you insight into the most critical security risks for web applications and how AI can mitigate them. The subsequent sections focus on secure AI programming and web application integration, empowering you to combine AI models with web applications seamlessly. You'll also explore deploying and debugging AI applications and understand how to troubleshoot real-world challenges. Lastly, you'll delve into the fascinating domain of Natural Language Processing (NLP) and its implications for AI security, gaining a unique skill set that combines linguistic knowledge with technical acumen.

By the end of this course, you'll be equipped with the knowledge to apply AI to enhance web application security in your projects. You'll have a solid understanding of secure AI programming, how to deploy and debug AI applications, and how to leverage NLP to identify vulnerabilities in web applications. This course not only empowers you with an important skill set but also contributes to shaping a more secure, AI-enhanced digital landscape.

Who Should Attend

This introductory level course is geared for tech enthusiasts, software developers, web application developers, and AI aspirants seeking to harness the power of AI to enhance web security. It's also ideal for IT professionals responsible for web security in their organizations who are eager to innovate with AI-driven solutions. Roles might include Web Application Developers, Software Engineers, Information Security Analysts, AI/Machine Learning Enthusiasts, IT Managers focused on Web Security, Data Scientists interested in Web Security or others

Prerequisites & Entry Requirements

General Prerequisites:

- Basic Understanding of Web Applications
- Basic understanding of programming concepts
- Basic cybersecurity concepts

Learning Outcomes

Upon successful completion of this course, participants will be able to:

Throughout the course you'll learn to:
-Master the basics of artificial intelligence and secure coding: Get familiar with the foundational aspects of AI and the significance of secure coding, setting a strong base to build your knowledge on.
-Understand the OWASP Top Ten 2021: Dive into the major web application security risks and explore how AI can play a significant role in their mitigation.
-Grasp the concept of secure AI programming: Learn about the key principles of secure AI programming and how to implement them effectively in your projects.
-Get hands-on with web application integration: Acquire the know-how to integrate AI models seamlessly with web applications, taking your programming skills to the next level.
-Get the hang of deploying and debugging AI applications: Familiarize yourself with the process of deploying AI applications and learn how to troubleshoot common issues that might pop up.
-Explore the fascinating world of Natural Language Processing: Delve into the intersection of language and AI, understanding how NLP can be used to identify vulnerabilities in web applications.

Detailed Course Outline

Introduction to AI and Secure Coding

Understand the basics of AI and the importance of secure coding

Understanding AI: An overview

Secure Coding in AI

Intro to machine learning

Demo: Demonstrate a basic AI model

Understanding OWASP Top Ten 2021 and AI Implications

Understand the OWASP Top Ten 2021 and how AI can mitigate risks

Brief overview of the OWASP Top Ten 2021

Discussing security risks in AI applications

Demo: Show how AI can be used to identify potential security threats using

Secure AI Programming and Web Application Integration

Understand the concept of secure AI programming and web application integration

Security in AI: An Overview

Secure data handling in AI

Connecting AI models with Web applications

Demo: Demonstrate connecting an AI model to a web application

Deploying and Debugging AI Applications

Understand how to deploy and debug AI applications

The fundamentals of AI application deployment

Troubleshooting common issues in AI applications

Demo: Demonstrate deploying a simple AI model

Natural Language Processing and AI Security

Understand the basics of Natural Language Processing (NLP) and AI security

Overview of NLP in AI

AI in identifying vulnerabilities in web applications

Demo: Showcase text processing and analysis

Additional Course Details

Nexus Humans Applying AI to Web Security (TTAI2835) training program is a workshop that presents an invigorating mix of sessions, lessons, and masterclasses meticulously crafted to propel your learning expedition forward.

This immersive bootcamp-style experience boasts interactive lectures, hands-on labs, and collaborative hackathons, all strategically designed to fortify fundamental concepts.

Guided by seasoned coaches, each session offers priceless insights and practical skills crucial for honing your expertise. Whether you're stepping into the realm of professional skills or a seasoned professional, this comprehensive course ensures you're equipped with the knowledge and prowess necessary for success.

While we feel this is the best course for the Applying AI to Web Security (TTAI2835) course and one of our Top 10 we encourage you to read the course outline to make sure it is the right content for you.

Additionally, private sessions, closed classes or dedicated events are available both live online and at our training centres in Dublin and London, as well as at your offices anywhere in the UK, Ireland or across EMEA.

Frequently Asked Questions

Q: What delivery options are available for Applying AI to Web Security (TTAI2835)?

We offer multiple delivery formats:

- Live Instructor-Led Classroom Online (Virtual/Live Online)
- Traditional Instructor-Led Classroom Training (ILT)
- On-site delivery at your offices anywhere in United Kingdom
- Private dedicated courses customized for your team

Q: How many CPD hours does this course provide?

The 1-day Applying AI to Web Security (TTAI2835) course provides up to 6.5 CPD hours of structured learning. CPD certificates can be provided upon request.

Q: What is the duration of the Applying AI to Web Security (TTAI2835) training?

The training takes place over 1 day(s), with each day lasting approximately 8.00 hours including breaks for lunch and refreshments.

Q: Do you provide corporate training for Applying AI to Web Security (TTAI2835)?

Yes, we provide corporate training, dedicated training, and closed classes for Applying AI to Web Security (TTAI2835). Training can take place anywhere in United Kingdom including London, Manchester, Birmingham, Edinburgh, or live online allowing teams from across United Kingdom or internationally to attend.

Q: What related terms do people search for?

Popular related searches include: AI; Machine Learning; OWASP; Security

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Q: Why choose Nexus Human for Applying AI to Web Security (TTAI2835)?

Nexus Human is recognized as one of the leading training providers. Our trainers have won multiple awards including:

- Small Firms Best Trainer Award
- National Training Partner of the Year (Ireland) - Multiple Years
- Global Top 30 Instructor Awards (2012, 2019, 2021)
- Tech Excellence Award Nominations
- Learning Performance Institute (LPI) External Training Provider Sponsor 2024

Q: Are there any discount codes available?

Yes! Use discount code **PENPAL5** when booking your Applying AI to Web Security (TTAI2835) training. Please note that only one discount code can be used per booking and cannot be combined with other special offers.

Nexus Human

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