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Global Learning for Operational Leaders

IT MANAGEMENT AND CYBER SECURITY

Artificial Intelligence (AI)-Based Cybersecurity Defense Strategies

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Course content

Why Attend

Course Introduction

This Artificial Intelligence (AI)-Based Cybersecurity Defense Strategies training course provides an in-depth exploration of how artificial intelligence (AI) can be leveraged to enhance cybersecurity defense strategies.

Course Methodology

Course Objectives

Target Audience

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Course outline

Detailed course outline

Day-by-day outline for Artificial Intelligence (AI)-Based Cybersecurity Defense Strategies.

Day 1 - Introduction to AI and Cybersecurity

• Overview of AI technologies and their relevance to cybersecurity

• The role of AI in modern cybersecurity strategies

• Current trends and challenges in AI cybersecurity

• Case studies of AI applications in cybersecurity

• Interactive session: Identifying AI opportunities in your organization's cybersecurity strategy

Day 2 - Machine Learning for Cyber Threat Detection

• Basics of machine learning algorithms and their applications in cybersecurity

• Supervised vs. unsupervised learning techniques

• Implementing machine learning models for threat detection

• Case studies of machine learning in threat detection

• Interactive session: Developing a machine learning model for a sample cyber threat scenario

Day 3 - Deep Learning for Advanced Threat Analysis

• Introduction to deep learning and neural networks

• Applications of deep learning in advanced threat analysis

• Techniques for training and deploying deep learning models

• Case studies of deep learning in cybersecurity

• Interactive session: Building and testing a deep learning model for threat analysis

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Day-by-day outline for Artificial Intelligence (AI)-Based Cybersecurity Defense Strategies.

Day 4 - AI-Driven Incident Response

• Automated incident response using AI technologies

• AI tools for real-time threat analysis and response

• Developing an AI-driven incident response plan

• Case studies of AI-driven incident responses

• Interactive session: Creating an AI-driven incident response plan for a sample organization

Day 5 - Integration and Ethical Considerations

• Integrating AI into existing cybersecurity frameworks

• Best practices for AI implementation in cybersecurity

• Ethical and legal considerations in AI cybersecurity

• Preparing for future developments in AI and cybersecurity

• Interactive session: Developing an integration plan for AI in your organization's cybersecurity strategy

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Seminar dates

Available seminar dates

Live dates and pricing for Artificial Intelligence (AI)-Based Cybersecurity Defense Strategies generated from the course details page.

Date	Location	Format	Fee
15 - 19 June 2026	London	Classroom	**€2,940**
20 - 24 July 2026	Frankfurt	Classroom	**€2,275**
3 - 7 August 2026	London	Classroom	**€2,940**
7 - 11 September 2026	Istanbul	Classroom	**€1,995**
12 - 16 October 2026	Vienna	Classroom	**€2,975**
9 - 13 November 2026	Barcelona	Classroom	**€2,695**
14 - 18 December 2026	Paris	Classroom	**€3,150**

Live online option	Online delivery is available at €1,250.