



aractech

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

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

Course outline

Detailed course outline

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

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.