5 Days

Artificial Intelligence (AI)-Based Cybersecurity Defense Strategies

▶ Upcoming Sessions

23-27 Dec 2024	London - UK	$5,950
03-07 Nov 2025	Dubai - UAE	$5,950

▶ Training Details

Training Course Overview

This training course provides an in-depth exploration of how artificial intelligence (AI) can be leveraged to enhance cybersecurity defense strategies. Participants will learn about the latest AI technologies and methodologies used to identify, prevent, and respond to cyber threats. The course covers practical applications, case studies, and hands-on exercises to equip professionals with the skills needed to implement AI-based cybersecurity solutions effectively.

Training Course Objectives

By the end of this training course, participants will be able to:

- Understand the fundamentals of AI and its application in cybersecurity
- Learn how to use AI for threat detection and response
- Explore machine learning algorithms for cybersecurity
- Gain insights into deep learning techniques for advanced threat analysis
- Develop strategies for integrating AI into existing cybersecurity frameworks
- Understand the ethical and legal considerations of using AI in cybersecurity

Designed for

This training course is suitable to a wide range of professionals but will greatly benefit:

- Cybersecurity professionals
- IT managers and administrators
- Data scientists and AI engineers
- Security analysts and consultants
- Anyone interested in the intersection of AI and cybersecurity

Learning Methods

This Anderson training course will utilise a variety of proven adult learning techniques to ensure maximum understanding, comprehension and retention of the information presented. This training course is interactive and challenges one to think. The tutor will guide and facilitate learning, using direct input, discussions, case studies, exercises and video presentation. The skill sets developed will add value to employees, managers and leaders alike.

▶ Training Details

Day One: 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 Two: 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 Three: 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

Day Four: 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 Five: 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

▶ The Certificate

Anderson Certificate of Completion will be provided to delegates who attend and complete the course

▶ INFO & IN-HOUSE SOLUTION

For more information about this course, call or email us at:

Call us: +971 4 365 8363

Email: info@anderson.ae

Request for a Tailor-made training and educational experience for your organization now: