AI-Powered Data Analysis: Transforming Insights with AI

IT & IT Engineering
London (UK)
28 Jul - 01 Aug 2025

UK Traininig
PARTNER

AI-Powered Data Analysis: Transforming Insights with AI

Ref: 321465_136309 **Date:** 28 Jul - 01 Aug 2025 **Location:** London (UK) **Fees:** 4400 **Euro**

Course Description

This intensive 5-day course equips participants with the knowledge and skills to harness artificial intelligence for advanced data analysis. Participants will explore AI concepts, tools, and techniques, learning how to apply them to real-world data challenges. The course covers everything from AI fundamentals to practical applications in various industries.

Learning Objectives

- Understand core AI concepts and their application in data analysis
- Master key AI tools and techniques for data preprocessing, analysis, and visualization
- Apply machine learning algorithms to extract insights from complex datasets
- Develop skills in AI-driven predictive analytics and decision-making
- Understand ethical considerations and best practices in AI data analysis

Course Modules

Day 1: Introduction to AI in Data Analysis

- AI fundamentals and their role in data analysis
- Overview of AI tools and platforms for data analytics
- Introduction to Python for AI-driven data analysis
- Ethical considerations in AI data analysis

Day 2: Data Preparation and Exploratory Analysis

- AI-powered data cleaning and preprocessing techniques
- Advanced data visualization using AI tools
- Automated feature selection and engineering
- Exploratory data analysis with AI assistance

Day 3: Machine Learning for Data Analysis

- Supervised and unsupervised learning algorithms
- Building and evaluating predictive models
- Time series analysis and forecasting with AI
- Ensemble methods and advanced model optimization

Day 4: Deep Learning and Natural Language Processing

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- Introduction to neural networks and deep learning
- Convolutional Neural Networks for image analysis
- Natural Language Processing for text data analysis
- Sentiment analysis and topic modeling

Day 5: AI Applications and Future Trends

- AI in business intelligence and decision-making
- Industry-specific AI applications finance, healthcare, marketing
- Emerging trends in AI for data analysis
- Building an AI-powered data analysis workflow

Practical Wins for Participants

- Ability to implement AI-driven data analysis projects from start to finish
- Skills to automate complex data analysis tasks using AI tools
- Capability to extract deeper insights from data using advanced AI techniques
- Knowledge to make data-driven decisions with greater accuracy and efficiency

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