Machine Learning and Predictive Models

Paris (France)

27 - 31 July 2026

UK Traininig
PARTNER

Machine Learning and Predictive Models

Code: AI28 From: 27 - 31 July 2026 City: Paris (France) Fees: 5100 Pound

Introduction

In a data-driven world, machine learning and predictive models have become strategic necessities for effective decision-making.
This course offers a practical foundation in modern data analysis techniques and equips participants with tools to build predictive solutions that drive growth and operational efficiency.
It is designed for executives, team leaders, and professionals across departments such as HR, finance, marketing, and project management in both public and private sector institutions throughout the Middle East and North Africa.
The course also caters to early- and mid-career professionals, as well as senior management seeking to align their strategic vision with AI-powered insights.
Through a balanced blend of theory and application, participants will gain the skills to transform data into actionable business intelligence.

Course Objectives

- Understand the core principles of machine learning.
- Learn how to build and interpret predictive models.
- Apply appropriate algorithms to real-world business challenges.
- Use analytical tools to design smart performance indicators.
- Train models on real datasets and evaluate their accuracy.
- Manage data quality and address bias in predictive systems.
- Improve decision-making based on data-driven forecasts.
- Integrate smart analytics into enterprise operations.

Course Outlines

Day 1: Introduction to Machine Learning

- Key differences between traditional programming and machine learning.
- Categories of machine learning: supervised, unsupervised, and reinforcement learning.
- Use cases of machine learning in business environments.
- Understanding training and testing datasets.
- Ethical and legal considerations in machine learning applications.
- Overview of commonly used tools and platforms.

Day 2: Building Predictive Models

- What is a predictive model and how does it work?
- End-to-end development process from problem definition to deployment.
- Selecting key features and analyzing correlations.
- Business case applications in marketing, HR, and finance.
- Handling bias and data imbalance.

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- Creating clear and concise model reports.

Day 3: Practical Applications Using Analytical Tools

- Preparing and cleaning raw data for modeling.
- Using tools to build basic predictive models.
- Training, validating, and interpreting model performance.
- Comparing models and selecting the best one.
- Time-series data and trend forecasting.
- Designing interactive dashboards to present results.

Day 4: Optimization and Enterprise Integration

- Improving model accuracy through tuning techniques.
- Validating models with cross-validation and re-training.
- Integrating predictive models with business systems.
- Ensuring data security and privacy compliance.
- Aligning teams to adopt predictive analytics in workflows.
- Promoting a data-driven culture across departments.

Day 5: Case Study and Applied Assessment

- Analyzing a real-world case from the banking or oil sector.
- Developing a predictive solution for a business scenario.
- Participant-led evaluation of model outcomes.
- Group discussion of practical challenges and solutions.
- Final knowledge assessment.
- Personalized feedback and development planning.

Why Attend this Course: Wins & Losses!

- Gain a deep understanding of predictive analytics.
- Turn complex data into actionable insights.
- Acquire in-demand technical skills.
- Reduce business risks through early forecasting.
- Improve marketing strategies with accurate targeting.
- Support HR planning with employee behavior predictions.
- Strengthen financial forecasting and budget planning.
- Prepare your organization for advanced digital transformation.

Conclusion

The Machine Learning and Predictive Models course provides a practical gateway for professionals to make smarter, data-driven decisions.Whether you work in finance, marketing, energy, or government, this program empowers you with the tools to become part of the AI transformation.

By combining technical insight with real business application, you will be prepared to face challenges and deliver measurable value.This is not just a training program it s a mindset shift toward intelligent decision-making.

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