



London TDM

# Artificial Intelligence and Data Science Training Courses

**Course Venue:** United Arab Emirates - Dubai

**Course Date:** From 19 April 2026 To 23 April 2026

**Course Place:** Downtown Dubai

**Course Fees:** 5,000 USD

## Introduction

In today's data-driven business landscape, the ability to leverage data science for informed decision-making is a crucial skill set for business professionals. This comprehensive 5-day course, "Data Science for Business Decision Making," aims to equip participants with the foundational knowledge and practical skills needed to harness data science methodologies to drive strategic business decisions. Through a combination of theoretical presentations, case studies, and hands-on exercises, participants will gain valuable insights into how data science can be applied in a business context to improve outcomes across various domains.

- Understand the principles and techniques of data science relevant to business.
- Analyze and interpret data to inform business decision-making.
- Apply data science tools and techniques to solve business problems.
- Develop data-driven strategies to enhance business performance.
- Communicate data-driven insights effectively to stakeholders.

## Course Outlines

### Day 1: Introduction to Data Science and Its Relevance to Business

- Overview of data science concepts and terminologies
- The role of data science in modern business
- Key data science tools and technologies
- Case studies on data-driven business transformations
- Interactive session to identify business challenges

### Day 2: Data Collection, Preprocessing, and Exploration

- Methods of data collection and data sources
- Data quality assessment and cleaning techniques
- Descriptive statistics and data visualization
- Exploratory data analysis (EDA) techniques
- Hands-on exercise: Cleaning and exploring a business dataset

### Day 3: Predictive Analytics and Model Building

- Introduction to predictive analytics and its applications
- Supervised learning techniques: Regression and classification
- Model selection, training, and evaluation
- Overfitting vs. underfitting and model tuning
- Practical session: Building predictive models with a business dataset

### Day 4: Advanced Data Science Techniques for Business

- Introduction to unsupervised learning and clustering
- Time series analysis for business forecasting
- Natural language processing for business insights
- Introduction to deep learning applications in business
- Case study analysis: Advanced techniques in action

## **Day 5: Communicating Data Insights and Driving Business Decisions**

- Data storytelling and effective communication strategies
- Creating impactful visualizations and dashboards
- Building a data-driven culture in organizations
- Ethical considerations in data science
- Capstone project presentations and feedback