

## Data Science and Analytics Training Course

*Dubai (UAE)*

*26 - 30 October 2025*

UK Training

# PARTNER



## Data Science and Analytics Training Course

Code: IT28 From: 26 - 30 October 2025 City: Dubai (UAE) Fees: 4600 Pound

### Introduction

In today's data-driven world, the ability to understand and analyze data is critical for strategic planning and informed decision-making. Data Science and Analytics combine statistical analysis, machine learning, and data visualization to transform raw data into actionable insights.

This Data Science course is designed to equip participants with the foundational knowledge and practical skills required to analyze complex datasets, interpret trends, and drive data-informed business decisions. Through hands-on exercises and real-world applications, participants will learn how to leverage data science techniques to optimize processes and enhance organizational performance. Whether you are pursuing a Data Science degree, a Data Science certificate, or aiming to work in Data Science positions, this course will lay the groundwork for success.

### Course Objectives

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

- Understand the core concepts of Data Science and Analytics, including statistics for data science and data science solutions.
- Collect, clean, and manipulate large datasets effectively.
- Apply statistical analysis and machine learning techniques to discover patterns and trends in data.
- Visualize data using modern tools to communicate insights clearly.
- Make data-driven decisions that enhance business strategy and operations.

### Course Outlines

#### Day 1: Introduction to Data Science and Data Analytics

- What is Data Science? ◻ Understanding its definition and significance in modern business.
- Key concepts: Big Data, Data Mining, Machine Learning, and Artificial Intelligence.
- Understanding the Data Science process:
  - Collection
  - Cleaning
  - Analysis
  - Visualization



- Tools and technologies used in Data Science: Python, R, SQL.
- Hands-on session: Introduction to Jupyter Notebooks and basic Python programming.
- Insights into Data Science vs Data Analytics – key differences and complementary skills.

## Day 2: Data Collection, Cleaning, and Preparation

- Techniques for data collection from various sources: databases, APIs, and web scraping.
- Data cleaning methods: Handling missing values, removing duplicates, and correcting inconsistencies.
- Data transformation and normalization for accurate analysis.
- Introduction to Exploratory Data Analysis EDA to understand dataset characteristics.
- Practical exercise: Cleaning and preparing a real dataset for analysis.
- Understanding data science qualifications required for effective data management.

## Day 3: Data Analysis and Machine Learning Techniques

- Introduction to statistics for data science: Mean, Median, Mode, Standard Deviation
- Supervised vs. Unsupervised Learning – key differences and applications.

- Key algorithms in Data Science analytics:

- Linear Regression
- Logistic Regression
- K-Nearest Neighbors KNN
- Decision Trees
- Clustering Techniques K-Means, Hierarchical Clustering

- Model evaluation and improvement techniques.
- Hands-on session: Building and evaluating machine learning models.
- Introduction to Data Science projects and how to effectively manage them.

## Day 4: Data Visualization and Interpretation

- Importance of data visualization in business data science and decision-making.
- Tools for visualization: Matplotlib, Seaborn, and Tableau.

- Creating effective charts:

- Line Graphs
- Bar Charts
- Scatter Plots
- Heatmaps



- Storytelling with data: How to present insights in a clear and impactful manner.
- Group Activity: Creating dashboards to present analysis findings.
- Understanding Data Science programming for effective visualization.

## Day 5: Data-Driven Decision Making and Real-World Applications

- Understanding business intelligence and the role of Data Science for business.
- Case studies on Data Science applications in:
  - Marketing
  - Finance
  - Supply Chain
  - Healthcare
- Ethical considerations and data privacy in analytics.
- Developing a data-driven decision-making mindset.
- Final Project: Analyzing a dataset and presenting business insights.
- Overview of Data Science methods and how they are applied in real-world scenarios.

## Why Attend this Course: Wins & Losses!

- Master the skills to analyze complex datasets and extract actionable insights.
- Learn to build machine learning models to predict trends and improve decision-making.
- Enhance your ability to visualize data effectively for strategic communication.
- Gain hands-on experience with industry-standard tools like Python, Tableau, and SQL.
- Prepare for Data Science positions and build a strong foundation for Data Science internships.
- Understand the core of Data Science vs Data Analytics and how they complement each other in business.
- Kickstart your journey in Data Science projects, whether in business data science or data science services.

## Conclusion

Data Science and Analytics is the backbone of modern business intelligence and strategic decision-making. This course empowers participants with the knowledge and practical skills to collect, analyze, and interpret data for better business outcomes.

Through real-world applications and hands-on exercises, participants will gain the confidence to leverage data science techniques as powerful tools for driving growth and innovation. Whether you're pursuing a Data Science degree, looking for Data Science training, or planning Data Science projects, this course is the stepping stone to mastering Data Science solutions.



# Blackbird Training Cities

## Europe



Malaga (Spain)



Sarajevo (Bosnia and Herzegovina)



Oporto (Portugal)



Glasgow (Scotland)



Edinburgh (UK)



Oslo (Norway)



Annecy (France)



Bordeaux (France)



Copenhagen (Denmark)



Birmingham (UK)



Lyon (France)



Moscow (Russia)



Stockholm (Sweden)



Podgorica (Montenegro)



Batumi (Georgia)



Salzburg (Austria)



London (UK)



Istanbul (Turkey)



Amsterdam



Düsseldorf (Germany)



Paris (France)



Athens (Greece)



Barcelona (Spain)



Munich (Germany)



Geneva (Switzerland)



Prague (Czech)



Vienna (Austria)



Rome (Italy)



Brussels (Belgium)



Madrid (Spain)



Berlin (Germany)



Lisbon (Portugal)



Zurich (Switzerland)



Manchester (UK)



Milan (Italy)



## Blackbird Training Cities

### USA & Canada



Los Angeles (USA)



Orlando, Florida (USA)



Online



Phoenix, Arizona (USA)



Houston, Texas (USA)



Boston, MA (USA)



Washington (USA)



Miami, Florida (USA)



New York City (USA)



Seattle, Washington (USA)



Washington DC (USA)



In House



Jersey, New Jersey (USA)



Toronto (Canada)

### ASIA



Baku (Azerbaijan)  
(Thailand)



Maldives (Maldives)



Doha (Qatar)



Manila (Philippines)



Bali (Indonesia)



Bangkok



Beijing (China)



Singapore (Singapore)



Sydney



Tokyo (Japan)



Jeddah (KSA)



Riyadh (KSA)



Melbourne (Australia)  
Korea



Phuket (Thailand)



Dubai (UAE)



Kuala Lumpur (Malaysia)



Kuwait City (Kuwait)



Seoul (South)



Pulau Ujong (Singapore)



Irbid (Jordan)



Jakarta (Indonesia)



Amman (Jordan)



Beirut





## Blackbird Training Cities

### AFRICA



Kigali (Rwanda)



Cape Town ( South Africa)



Accra (Ghana)



Lagos (Nigeria)



Marrakesh (Morocco)



Nairobi (Kenya)



Zanzibar (Tanzania)



Tangier (Morocco)



Cairo (Egypt)



Sharm El-Sheikh (Egypt)



Casablanca (Morocco)



Tunis (Tunisia)



## Blackbird Training Clients



MANNAI Trading  
Company WLL,  
Qatar



Alumina Corporation  
Guinea



Booking.com  
Netherlands



Oxfam GB International  
Organization,  
Yemen



Capital Markets  
Authority,  
Kuwait



Waltersmith Petroman Oil Limited  
Nigeria



Qatar National Bank  
(QNB),  
Qatar



Qatar Foundation,  
Qatar



AFRICAN UNION ADVISORY  
BOARD ON CORRUPTION,  
Tanzania



KFAS  
Kuwait



Reserve Bank of  
Malawi,  
Malawi



Central Bank of Nigeria  
Nigeria



Ministry of Interior,  
KSA



Mabruk Oil Company  
Libya



Saudi Electricity  
Company,  
KSA



BADAN PENGELOLA  
KEUANGAN Haji,  
Indonesia



NATO  
Italy



ENI CORPORATE  
UNIVERSITY,  
Italy



Gulf Bank  
Kuwait



Defence Space Administration  
Nigeria



National Industries  
Group (Holding),  
Kuwait



Hamad Medical  
Corporation,  
Qatar



USAID  
Pakistan



STC Solutions,  
KSA



North Oil company,



EKO Electricity



Oman Broadband



UNITED NATIONS  
UN.



Authority for

UK Training  
**PARTNER**





## Blackbird Training Categories

### Management & Admin

Entertainment & Leisure  
Professional Skills  
Finance, Accounting, Budgeting  
Media & Public Relations  
Project Management  
Human Resources  
Audit & Quality Assurance  
Marketing, Sales, Customer Service  
Secretary & Admin  
Supply Chain & Logistics  
Management & Leadership  
Agile and Elevation

### Technical Courses

Artificial Intelligence (AI)  
Hospital Management  
Public Sector  
Special Workshops  
Oil & Gas Engineering  
Telecom Engineering  
IT & IT Engineering  
Health & Safety  
Law and Contract Management  
Customs & Safety  
Aviation  
C-Suite Training



International House 185 Tower Bridge  
Road London SE1 2UF United Kingdom



+44 7401 1773 35  
+44 7480 775526



[Sales@blackbird-training.com](mailto:Sales@blackbird-training.com)



[www.blackbird-training.com](http://www.blackbird-training.com)

