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DATA MANAGEMENT AND BUSINESS INTELLIGENCE | DMBI-008

Data Analysis Masterclass Visualization and Statistics

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Course content

Why Attend

In today's competitive, data-driven environment, professionals are expected to go beyond basic reporting and develop advanced analytical capabilities. This masterclass is designed to take participants from solid fundamentals to advanced proficiency in data analysis, statistics, and data visualization using modern analytical approaches and tools. Participants will learn how to extract meaningful insights from complex datasets, apply statistical reasoning, build advanced visualizations, and use analytical programming concepts to support high-impact decision-making across business and technical environments.

Course Methodology

This masterclass is highly practical and workshop-driven. It combines advanced theoretical concepts with hands-on exercises using real-world datasets. Participants will work through structured labs covering statistics, visualization design, and analytical problem-solving. Scenario-based learning, case studies, and guided project work will be used extensively. Depending on the training setup, tools such as Excel advanced functions, Power BI, and introductory Python/R concepts for data analysis may be incorporated.

Course Objectives

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

- Apply advanced statistical techniques for data interpretation and decision-making
- Build professional-level data visualizations and dashboards
- Understand and apply regression, correlation, and forecasting concepts
- Perform structured data cleaning, transformation, and analysis workflows
- Develop analytical thinking for complex business problems
- Use basic programming concepts for data analysis (Python/R foundations)
- Interpret and communicate insights effectively to stakeholders
- Build end-to-end data analysis projects from raw data to presentation



Course content

Target Audience

- Data Analysts and Business Intelligence Professionals
- Engineers and Technical Professionals working with data
- Business and Financial Analysts
- Project and Operations Managers
- IT Professionals transitioning into data roles
- Professionals seeking advanced data analysis skills

Target Competencies

- Advanced statistical analysis and interpretation
- Data visualization and dashboard development
- Analytical problem-solving and critical thinking
- Data modeling and forecasting fundamentals
- Data storytelling and insight communication
- Basic programming for data analysis (Python/R concepts)
- End-to-end analytical project execution

Course outline

Day 1: Advanced Foundations of Data Analysis

- Role of advanced analytics in modern organizations
- Data types, structures, and analytical frameworks
- Review of data lifecycle and analytical workflows
- Introduction to analytical problem-solving models
- Overview of tools and environments (Excel, BI, programming basics)



Course content

Course outline

Day 2: Advanced Statistical Analysis

- Probability distributions and their applications
- Correlation and regression analysis
- Hypothesis testing and statistical significance
- Data variability and uncertainty in decision-making
- Interpretation of statistical outputs in business contexts

Day 3: Data Visualization & Dashboard Design

- Advanced visualization principles and techniques
- Designing executive-level dashboards
- KPI selection and performance measurement
- Interactive visual analytics concepts
- Story-driven dashboard development

Day 4: Forecasting & Analytical Modeling

- Introduction to forecasting techniques
- Trend analysis and predictive thinking
- Basic regression-based forecasting
- Scenario analysis and decision modeling
- Applying analytics to real-world business cases

Day 5: Advanced Programming & Capstone Project

- Introduction to programming concepts for data analysis (Python/R basics)
- Data manipulation and analysis workflow concepts
- Building an end-to-end analytical project



Course content

Course outline

- Presenting insights and recommendations
- Final masterclass project presentation and review



Seminar dates

Available seminar dates

Live dates and pricing for Data Analysis Masterclass Visualization and Statistics generated from the course details page.

Date	Location	Format	Fee
16 - 20 November 2026	London - U.K	Classroom	**€3,080.-**
7 - 11 December 2026	Barcelona - Spain	Classroom	**€3,520.-**
21 - 25 December 2026	Paris - France	Classroom	**€3,600.-**
18 - 22 January 2027	Munich - Germany	Classroom	**€3,400.-**
15 - 19 February 2027	Istanbul - Turkey	Classroom	**€2,280.-**
15 - 19 March 2027	London - U.K	Classroom	**€3,360.-**
19 - 23 April 2027	Barcelona - Spain	Classroom	**€3,080.-**
17 - 21 May 2027	Paris - France	Classroom	**€3,600.-**
21 - 25 June 2027	Frankfurt - Germany	Classroom	**€2,600.-**
19 - 23 July 2027	London - U.K	Classroom	**€3,360.-**
16 - 20 August 2027	Barcelona - Spain	Classroom	**€3,080.-**
20 - 24 September 2027	Paris - France	Classroom	**€3,600.-**
18 - 22 October 2027	Munich - Germany	Classroom	**€3,400.-**
15 - 19 November 2027	Istanbul - Turkey	Classroom	**€2,280.-**
20 - 24 December 2027	London - U.K	Classroom	**€3,360.-**

Live online option	Online delivery is available at €1,850.-.