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DATA MANAGEMENT AND BUSINESS INTELLIGENCE | DMBI-013

Financial Data Analytics with Python

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Course content

Why Attend

Financial decision-making increasingly depends on the ability to analyze large volumes of data quickly and accurately. Traditional spreadsheet-based analysis is no longer sufficient for handling complex datasets, forecasting trends, and uncovering hidden insights.

Python has emerged as a powerful tool for financial analytics, enabling professionals to automate analysis, build predictive models, and visualize financial data with precision and efficiency.

This course is designed to provide a practical foundation in using Python for financial data analysis. Participants will learn how to work with financial datasets, perform data manipulation, conduct analysis, and generate meaningful insights to support strategic and operational decisions.

Course Methodology

This programme combines hands-on coding with applied financial analysis:

- Guided coding exercises using Python
- Real-world financial datasets and scenarios
- Step-by-step demonstrations of analytical techniques
- Interactive problem-solving sessions
- Practical frameworks for financial data interpretation

Course Objectives

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

- Understand the fundamentals of Python for financial analysis
- Import, clean, and manipulate financial datasets
- Perform exploratory data analysis (EDA)
- Apply statistical techniques to financial data
- Create visualizations to communicate insights

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Course Objectives

- Automate financial analysis workflows
- Build simple predictive models for financial forecasting

Target Audience

This course is suitable for:

- Financial Analysts and Accountants
- Investment and Portfolio Analysts
- Risk and Compliance Professionals
- Business and Data Analysts
- Finance Managers and Controllers
- Professionals interested in financial technology (FinTech)

Target Competencies

Participants will develop competencies in:

- Python programming for financial applications
- Data cleaning and preprocessing
- Financial data analysis and interpretation
- Data visualization and reporting
- Automation of analytical workflows
- Basic predictive modeling
- Data-driven financial decision-making

Course outline

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Day 1: Introduction to Python for Financial Analytics

- Overview of Python in finance
- Setting up the Python environment
- Basic Python programming concepts
- Working with variables, data types, and structures
- Introduction to key libraries (Pandas, NumPy)
- Loading and exploring financial datasets

Day 2: Data Preparation and Exploration

- Data cleaning and preprocessing techniques
- Handling missing and inconsistent data
- Data transformation and normalization
- Exploratory Data Analysis (EDA)
- Summary statistics and financial indicators
- Practical exercises with financial data

Day 3: Financial Analysis and Visualization

- Time series data in finance
- Analyzing trends and patterns
- Data visualization using Python libraries (Matplotlib, Seaborn concepts)
- Creating charts for financial reporting
- Interpreting analytical outputs
- Case study: financial performance analysis

Day 4: Statistical Modeling and Forecasting

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Course outline

- Introduction to statistical methods in finance
- Correlation and regression analysis
- Basic predictive modeling techniques
- Time series forecasting concepts
- Evaluating model performance
- Practical modeling exercises

Day 5: Automation and Decision Support

- Automating financial analysis workflows
- Building reusable scripts for reporting
- Integrating data analysis into decision-making
- Risk analysis using data models
- Best practices in financial analytics
- Final project and presentation

Seminar dates

Available seminar dates

Live dates and pricing for Financial Data Analytics with Python generated from the course details page.

Date	Location	Format	Fee
20 - 24 July 2026	Frankfurt - Germany	Classroom	**€3,250.-**
3 - 7 August 2026	Rome - Italy	Classroom	**€4,250.-**
7 - 11 September 2026	Kuala lumpur - Malaysia	Classroom	**€2,250.-**
12 - 16 October 2026	Barcelona - Spain	Classroom	**€3,850.-**
9 - 13 November 2026	London - U.K	Classroom	**€4,200.-**
14 - 18 December 2026	Frankfurt - Germany	Classroom	**€3,250.-**

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