



DATA MANAGEMENT AND BUSINESS INTELLIGENCE

Financial Data Analytics with Python

Course code: DMBI-013

SPARK TRAINING

Professional training courses for leaders, specialists, and organizations seeking practical capability development.

info@sparktraining.eu

+31 85 115 0004 | sparktraining.eu

— Workshop Overview

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.

Why Attend

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

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- Guided coding exercises using Python
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- Real-world financial datasets and scenarios
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Who Should Attend

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)

— Learning Objectives

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

Course Outline

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

- 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

— Upcoming Classroom Dates

DATE	LOCATION	FEE
12 - 16 October 2026	Barcelona - Spain	€1,925
9 - 13 November 2026	London - United Kingdom	€2,100
14 - 18 December 2026	Frankfurt - Germany	€1,625
18 - 22 January 2027	Barcelona - Spain	€1,925
15 - 19 February 2027	Frankfurt - Germany	€1,625
15 - 19 March 2027	Rome - Italy	€2,125
19 - 23 April 2027	Kuala Lumpur - Malaysia	€1,400
17 - 21 May 2027	Barcelona - Spain	€1,925

— Certificate and Registration

Participants who attend and complete the full programme receive a SPARK Training Certificate of Completion. For registration, in-house delivery, or availability questions, contact info@sparktraining.eu or +31 85 115 0004.