

aractech

Global Learning for Operational Leaders



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.

Course Methodology

- 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

- 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

Target Audience

- This course is suitable for:
- Financial Analysts and Accountants
- Investment and Portfolio Analysts

Course outline

Detailed course outline

Day-by-day outline for Financial Data Analytics with Python.

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

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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

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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
15 - 19 June 2026	Barcelona	Classroom	€2,695
20 - 24 July 2026	Frankfurt	Classroom	€2,275
3 - 7 August 2026	Rome	Classroom	€2,975
7 - 11 September 2026	Kuala Lumpur	Classroom	€1,575
12 - 16 October 2026	Barcelona	Classroom	€2,695
9 - 13 November 2026	London	Classroom	€2,940
14 - 18 December 2026	Frankfurt	Classroom	€2,275

Live online option

Online delivery is available at €1,250.