

Investment Analytics with Python: Data-Driven Decisions in Modern Finance

COURSE OVERVIEW

This is an applied course that comes under FinTech & Intelligence Finance and focuses on leveraging Python programming and advanced data analytics to solve real-world investment challenges. Participants will learn to analyze financial markets, build quantitative models, and make informed investment decisions using Python-based tools, machine learning, and alternative data, gaining both theoretical knowledge and practical experience essential for modern finance professionals.

WHO SHOULD ATTEND?

This course is ideal for finance professionals, investment analysts, quantitative researchers, portfolio managers, traders, and data scientists with a keen interest in FinTech and data-driven investment strategies who want to develop or deepen their skills in financial analytics using Python and modern data science techniques.

COURSE OUTCOMES

Delegates will gain the skills and knowledge to:

- Master Python programming for financial analysis and investment modeling.
- Apply data analytics and visualization to inform finance decisions.
- Build, optimize, and evaluate quantitative investment portfolios.
- Use machine learning to enhance investment strategies.
- Analyze and interpret alternative financial datasets with Python.

KEY COURSE HIGHLIGHTS

At the end of the course, you will understand;

- Python fundamentals tailored for finance applications.
- Financial data analysis and visualization.
- Portfolio construction and risk-return optimization.
- Machine learning models for investment decision-making.
- Practical case studies using traditional and alternative data.
- Automation of portfolio analytics tasks in Python.
- Interpretation of model outputs for actionable insights.
- Exposure to leading Python libraries (Pandas, NumPy, Matplotlib).
- Practical exercises and projects for mastering data-driven investment analytics.

All our courses are dual-certificate courses. At the end of the training, the delegates will receive two certificates.

1. A GTC end-of-course certificate
2. Continuing Professional Development (CPD) Certificate of completion with earned credits awarded