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AI and Big Data for Asset Valuation and Investment Decision-Making

COURSE OVERVIEW

This course is a blend of AI and finance that is designed to equip finance professionals and other practitioners in related fields with the skills to leverage artificial intelligence and big data analytics for more accurate asset valuations and smarter investment decisions. The course will help participants to combine theoretical foundations with practical applications, focusing on the use of machine learning algorithms, alternative data sources, and automated strategies to improve investment performance and risk management in a rapidly evolving financial landscape.

WHO SHOULD ATTEND?

This course is tailored for finance professionals, asset managers, data scientists, and quantitative researchers, who aim to harness AI and big data technologies in investment decision-making and asset valuation. It is particularly suited for those working in asset management firms, fintech companies, investment analysis, and quantitative finance roles. Researchers interested in mastering next level analytical techniques will also benefit. A foundational understanding of finance, statistics, and basic programming is recommended to fully engage with the course material.

COURSE OUTCOMES

Delegates will gain the skills and knowledge to:

- Use AI and big data tools for accurate asset valuation and complex financial data processing.
- Apply machine learning for investment risk assessment, opportunity discovery, and predictive analytics.
- Integrate alternative data, like sentiment and news, into investment decisions.
- Implement automated strategies and dynamic portfolio optimization using data-driven signals.
- Address challenges with AI and big data, including model training, data quality, and compliance.
- Communicate actionable, analytics-based insights to investment stakeholders.

KEY COURSE HIGHLIGHTS

At the end of the course, you will understand;

- How to apply machine learning to enhance traditional valuation models (DCF, comparables).
- The process of extracting signals from alternative data (satellite, social media, web traffic).
- Techniques for building ensemble models that outperform conventional valuation approaches.
- Methods to automate investment screening using AI-driven analytics.
- How to analyze earnings calls with NLP for hidden market insights.
- Computer vision applications for retail traffic and supply chain analysis.
- Ethical frameworks for responsible AI in investment decisions.
- Practical model interpretability techniques to explain AI outputs.
- Implementation strategies for integrating AI into existing workflows.
- Case study applications across equities, real estate, and private assets.

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