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CHARTERED AI INVESTMENT ANALYST TM

CAITM

Fully Accredited By:

Chartered Institute of Professional Certifications

CPD Certification Service







Al investment analysis is critical due to the vast data volumes and complexities modern investors face. According to Refinitiv, Al-driven strategies could boost investment returns by 30-50% annually. With 84% of asset managers already utilizing Al according to Accenture, embracing Al analysis is imperative for competitive edge and superior investment outcomes.

This Chartered Al Investment Analyst (CAI™) program is designed to equip you with comprehensive knowledge and hands-on skills essential for navigating the sophisticated AI application in investment analysis. You will explore the dynamic Al-driven investment strategies, delving into foundational theories, technological advancements, and practical applications in the finance industry. Throughout the program, you will learn crucial topics such as the integration of AI with investment analysis, Python programming for financial data processing, machine learning algorithms, deep learning frameworks, natural language processing (NLP), and the innovative use of large language models (LLMs) in finance. You will learn the mechanism of AI technologies, supervised and unsupervised learning, classification, clustering, advanced model architectures like Recurrent Neural Networks (RNNs), Long Short-Term Memory (LSTMs), and Transformers to build robust risk management strategies in your investment strategies.

Moreover, you will acquire practical skills in developing Al-driven investment strategies, processing and visualizing financial data, building and evaluating predictive models, and applying NLP for financial analysis. This program will also help you to explore advanced topics such as sentiment analysis, summarization, and topic extraction in finance, along with the cutting-edge potential of generative Al and its implications for the modern of investment analysis, ensures a forward-looking education.

Upon completing the program, you will earn the prestigious **Chartered Al Investment Analyst (CAI™)** designation that will demonstrate your **expertise in deploying advanced Al models in optimizing investment and financial analysis strategies**. This CAI™ credential will distinguish you as an expert in adopting cutting-edge Al-driven investment analysis, enhancing your credibility and career prospects within the industry.

ACCREDITATIONS





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KEY SKILLS YOU WILL GAIN

From This Program





YOUR FACULTY DIRECTOR

Michael Wang, CFA

LinkedIn Top Voice - AI & Deep Learning Expert

Michael Wang, CFA, stands at the forefront of the data science and artificial intelligence landscape. As a recognized LinkedIn Top Voice in Al & Deep Learning, Michael brings over a decade of diverse experience spanning institutional investing, consulting, hedge funds, fintech, and data science. His expertise in predictive analytics, financial time series, deep learning, NLP, and data visualization is widely acknowledged. Michael has imparted his knowledge in Al as a lecturer at the University of Sydney and currently spearheads a data science team at a leading tech company.

His insights extend beyond the professional sphere; he writes for the largest data science publication on Medium and **features regularly as a top writer in Al, Technology and Business**. Michael's multifaceted career demonstrates a blend of technical proficiency and thought leadership in the evolving world of Al and data science.

OUR **PARTICIPANTS**

Over 70% of FORTUNE 500 **Companies Have Attended Our Accredited Programs**



SAMSUNG

ExonMobil.







Before









MODULE 1 - INTRODUCTION TO INVESTMENT ANALYSIS AND AI

- Lesson 1: Introduction to Investment Analysis and AI - Part 1
- Lesson 1: Introduction to Investment Analysis and AI - Part 2
- Lesson 2: Timeline of Al
- Lesson 3: Core Investment Concepts
- Lesson 4: Applications and Use Cases

MODULE 2 - INTRODUCTION TO PYTHON

- Lesson 1: Introduction to Python
- · Lesson 2: Python Basics Part 1
- Lesson 2: Python Basics Part 2
- Lesson 3: Data Frames and Visualizations
- Lesson 4: Working with Financial Data
- Lesson 5: Case Study

MODULE 3 - INTRODUCTION TO MACHINE LEARNING

- Lesson 1: Introduction to Machine Learning
- Lesson 2: Supervised Learning
- Lesson 3: Unsupervised Learning
- Lesson 4: Working with Financial Data

MODULE 4 - TIME SERIES MODELS

- Lesson 1: Time Series Models
- Lesson 2: Support Vector Machines
- Lesson 3: Tree Based Methods
- Lesson 4: Hyperparameter Optimization
- Lesson 5: Evaluation and Backtesting
- Lesson 6: Other Considerations

MODULE 5 - OVERVIEW OF DEEP LEARNING

- Lesson 1: Overview of Deep Learning
- Lesson 2: Deep Learning Fundamentals
- Lesson 3: Activation and Loss Functions
- Lesson 4: Regularization
- Lesson 5: Case Study

MODULE 6 - RECURRENT NEURAL NETWORKS

- Lesson 1: Recurrent Neural Networks
- Lesson 2: Long Short Term Memory
- Lesson 3: Transformers and Attention
- Lesson 4: Time Series Prediction with RNNs



MODULE 7 - INTRODUCTION TO NATURAL LANGUAGE PROCESSING

- Lesson 1: Introduction to Natural Language Processing
- · Lesson 2: Timeline of NLP
- · Lesson 3: Working with Text Data
- Lesson 4: Feature Extraction and Embeddings

MODULE 8 - TEXT SUMMARIZATION

- Lesson 1: Text Summarization
- Lesson 2: Sentiment Analysis
- Lesson 3: Topic Modelling
- Lesson 4: Case Study

MODULE 9 - LARGE LANGUAGE MODELS

- Lesson 1: Large Language Models
- Lesson 2: Setting Up ChatGPT
- Lesson 3: Applications for Investment Analysis
- Lesson 4: Prompting LLMs Effectively
- Lesson 5: Advanced Usage

MODULE 10 - PROMPT ENGINEERING

- Lesson 1: Prompt Engineering
- Lesson 2: Model Explainability
- Lesson 3: Framework for Applying Al
- Lesson 4: Case Study
- Lesson 5: Final Recap

FINAL EXAMINATION

YOUR CHARTER DESIGNATION



Chartered Institute of Professional Certifications' programs are unique as they provide you with professional charter designations and marks that can be used across your lifetime once you have completed our programs.

Upon completing the program and passing the exam, you will receive the prestigious Chartered Al Investment Analyst (CAI™) designation. Developed by the esteemed Chartered Institute of Professional Certifications, a leading authority in professional certifications, this industry-recognized trademarked charter distinguishes your profound expertise in the theoretical and practical deployment of advanced Al models for robust investment strategies, decision-making processes, and financial analysis framework. The program's content has been independently accredited and certified by CPD, ensuring that it meets the highest standards in continuing professional development. This distinguished designation will not only elevate your credibility but also enhance your marketability to potential employers or clients, making you stand out as a highly skilled and knowledgeable Al investment analyst.

ABOUT US

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CONTACT US TODAY

We Thank You for Your Ongoing Support of Our Programs



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