Tianle Huang

Address: Apartment 804, Bouchon Point 7 Cendal Crescent, London, E1 2FT
Email: huangtianle.student@gmail.com | Mobile: +447562610204

EDUCATION

University College London, UK **Start Date: Sep. 2024**
Degree Level: Master **Major:** Data Science
Core modules: Introduction to Machine Learning; Statistical Design of Investigation; Statistical Computing; Introduction to Statistical Data Science; Applied Machine Learning

London School of Economics and Political Science, UK **Sep. 2023 - Jun. 2024**
Degree Level: Master **Major:** Statistics (Financial Statistics)
Classification: Merit
Core modules: Statistical Inference: Principles, Methods and Computation; Financial Statistics; Bayesian Machine Learning; Time Series; Computational Data Sciencel; Distributed Computing for Big Data

University of Manchester, UK **Sep. 2020 - Jun. 2023**
Degree Level: Bachelor of Science **Major:** Actuarial Science and Mathematics
Classification: First Class
Core modules: Mathematical Modelling in Finance; Time Series Analysis; Regression Analysis; Generalized Linear Models; Statistical Methods; Financial Mathematics for Actuarial Science

Work EXPERIENCES

BlackRock, USA Remote Internship **Jul. 2022 - Aug. 2022**

- Collaborated with a quantitative analytics researcher on Python programming to complete end-to-end research on individual datasets of Chinese A-shares, including analyzing daily data and calculating daily moving averages for CSI 300 Index stocks for the past five years.
- Enhancing my understanding of Python and quantitative analysis techniques by mastering various functions such as data collation, filtering, and visualization using the pandas module has helped me analyze stock price fluctuations and develop investment strategies.

PROJECT EXPERIENCES

Portfolio Optimization Using Genetic Algorithm (Python) **Nov. 2023 - Jan. 2024**

- **Genetic algorithms** are written to optimize portfolio performance by maximizing Sharpe ratios and coding portfolios in real and binary to efficiently process financial data from Yahoo Finance and IEX.
- Incorporating **parallel computing** into processes such as dividing the overall data into a specified number of groups and selecting, crossover and mutation in the genetic algorithm improves algorithmic efficiency and model stability, which greatly reduces computation time and improves the ability to identify the global optimum in larger data sets.

AI Real-Time News Summarization and Sentiment Analysis with Kafka (Python) **Apr. 2024 - May. 2024**

- A real-time news processing system based on **Apache Kafka** is designed and implemented, which crawls news from Google News and uses machine learning models such as Logistic Regression to classify news by sentiment, focusing on identifying “Neutral” news.
- Using **Spark** for data preprocessing, **distributed training** of Logistic Regression, Decision Tree and Neural Network models, and **distributed computing** to optimize the performance of the system to achieve efficient processing of large-scale news data.
- Generating news summaries to ensure that the system can provide efficient and accurate news content summaries in real-time news streams by using **CHATGPT API**.

Awards，Skills & Interests

Language Proficiencies: Mandarin, English
Awards: Certificate in Quantitative Finance (CQF posted by end of November)
Technical Skills: Microsoft Office, R, Python, MATLAB
Interests: Basketball, Travelling