TINH CAO

Email: caotinh98c@gmail.com | Phone: (+1) 708-869-0995 | LinkedIn: https://www.linkedin.com/in/tinhcaomas |

GitHub: https://github.com/tccao

Education

Illinois Institute of Technology | Chicago, IL

August 2021 - August 2023

Master of Data Science

North Central College | Naperville, IL

August 2016 – May 2020

• B.S Actuarial Science; B.S Computer Science; B.S Finance

Coursework: Inference statistics; Introduction to Time Series; Project Management; Monte Carlo Methods in Finance; Design and Analysis of Algorithm; Machine Learning; Big data Technologies; Computational mathematics; Project management.

Skills | Additional Info

- Programming Languages: Python, MySQL, ORACLE SQL, R.
- Other tools/Libraries: Tableau, PowerBI, Jupyter Notebook, MATHLAB, Keras, mathplotlib, tensorflow.
- North Central College: Co-founded student managed investment fund with a successful \$10,000 fund raising; President of Asian Konnection Club to promote culture and diversity on campus; Admitted to GIS and UPE's honor society chapter.

Experience

SynergisticIT - Remote | Chicago, IL

January 2024 - Current

Data Science Intern

- Retailer Project: Developed interactive Power BI report synthesizing retailers' sales, inventory, and customer data into visually intuitive interface for client.
- Excel project: Built an interactive Excel dashboard synthesizing tech industry layoff datasets into dynamic pivot tables and charts to uncover insights and trends for leadership.
- Rapidly expanding Oracle SQL skills through hands-on training and development.

Cook's County Treasurer Office | Chicago, IL

May 2023 - August 2023

Data Science Practicum Student

- Spearheaded an artificial intelligence and machine learning initiative to transform property tax predictions, drafting the full project proposal and timeline for the innovation.
- Led a high-performing team of 5 IIT's students, managing outcomes through rigorous project management. Conducted weekly
 presentations to drive quality assurance and stakeholders updated.
- Reconciled conflicts between model outcomes and target goals through analytical troubleshooting. Conducted thorough test to ensure
 model dependency on client's end.
- Implemented a random forest model that yielded a 0.81 accuracy score and 0.71 precision, generating quantifiable business impact. The combined predictive models are estimated to save 40% in annual administrative costs.
- Acted as the central liaison between technical and leadership teams to accelerate execution. Clearly translated data science insights into
 executable solutions for stakeholders.

Sun Life VN | Ho Chi Minh city, Vietnam

October 2020 - July 2021

Valuation Intern

- · Collaborated and initiated improvement on existing policies to reduce computing load on report generating.
- Coordinated with Strategy, Product, and Marketing team to assess the effectiveness of new launch product for internal and external stakeholders.

Projects

- Italian Oil Price Prediction Using Time Series Model: Executed a comprehensive data analysis project focused on forecasting Italian oil
 prices using a SARIMA model in R and Python. Leveraged ACF and PACF analyses to detect underlying trends and seasonality, yielding
 results with a MAPE of 10.68% and an RMSE score of 86.09.
- Analyzing Spotify Hit: Led initial data exploration and initial analysis. The result was narrowed and visualized with 5 variables since it yielded the highest accuracy score 71.5% among all models used (PCA; Basic Decision Tree; Random Forest).
- Stock Portfolio Optimization S&P600/XLK in R: Maximized investment portfolio's revenue and ROI by strategically distributing marketing budget across the most promising channels using log-return and CAPM criteria (Annualized alpha).