Thanh To Nguyen

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EDUCATION

Bachelor of Science: Computer Science/ Finance Minor (Cum: 3.51) | Manhattan College | Expected May 2024

- Dean's List: F'20/ S'21/ F'21/ S'22/ F'22/ S'23/ F'23
- Student Honor Program: School of Science – advanced/rigorous courses and senior research/presentations
- Honor Society of Epsilon Sigma Pi

COURSEWORK HIGHLIGHT

- Computer Science: Machine Learning(M.S), Capstone(S '24), Data Mining(S '24), Computer Security(S '24), Python programming (S '24), System Programming, Software Engineering, Numerical Computation, Computer Network, Database System I, Data Structure and Algorithm I&II, Object Oriented Design with Java
- Finance: Accounting, Statistic and Probability(Westcott Course), Money And Banking, Principle of Finance, Investment
- Math: Calculus I&II, Computational Linear Algebra and Statistics for Computer Science

TECHNICAL SKILLS & LANGUAGES

Microsoft Office Suite (Word, Excel, Outlook, PowerPoint) | C# | C | C++ | HTML | Java | JavaScript | Python | CSS | SQL | Matlab | API | Computer Platforms | Algorithm

English (Native) | **Vietnamese** (Native) | **Chinese** (Intermediate)

INDUSTRY PROJECT

Research "Medical Imaging Research", PUBLISHING RESEARCH PROJECT 08/2023 - PRESENT

- Analyzed patient data using Python, Pandas, and Scikit-learn, focusing on distinguishing patient characteristics related to knee disease.
- Submitting research report and code for Stanford contest and applying to publish as a journal.
- Engineered a machine learning classification model, significantly boosting clinical decision-making accuracy; model's precision enhances prognostic capabilities, providing a valuable tool for medical professionals in diagnosing and treating knee conditions.
- Examining the tools of CNNs, Transfer Learning, among with the processing of data cleaning on Standford's MRNet-v1.0 database with 3 sub-dataset axial, corronal, and saggital for detecting illness by image classification.
- Developed a classification model that achieved accuracy of 99%, 95% and 81% on 3 datasets and an AUC score of 0.848 for the overall dataset, which enhances the predictive power of clinical decision-making tools for the health department.

Regression Time Series Research "ARMA Model" TIME SERIES PROJECT SPRING 2023

- Applied ARMA model and oversampling techniques to forecast stock prices, tapping into Yahoo Finance's API for real-time data analysis, with a prediction accuracy of 85% over a testing period of 6 months.
- Delivered a detailed presentation of predictive outcomes to the Graduate Math Department, showcasing the model's capabilities.
- Demonstrated a prediction accuracy rate over a specific testing period, emphasizing the model's potential for financial applications.

Personal Project, WEATHER APP PROJECT FALL 2023

- Create a weather app using Java Script React that could give users real-time weather information for different locations globally.
- Retrieved and accessed APIs from GeoDB Cities to get cities name list and coordinate and Open Weather App for weather information.
- Provide detailed current weather information and forecast the weather conditions in the next 7 days, chosen city could always be changed.

PROFESSIONAL EXPERIENCE

CMC GLOBAL, HANOI, VIETNAM

Intern – Full Stack 05/2023 – 08/2023

- Focused on outsourcing for banking applications in Vietnam, enhancing transactions with Napas247 and contributing to the Anti Money Laundering project. Increased transaction speeds by 12% and contributed towards identification of 16 over 20 anti-money laundering cases.
- Contributed to developing banking applications, focusing on transactional efficiency and financial security.
- Enhanced the banking application infrastructure, ensuring compliance with financial regulations and improved user experience.

SCOPUSIAN'S RESEARCHER, HANOI, VIETNAM

Data Collector & Analyst 06/2020 –05/2021

- Analyzed extensive datasets for Vietnamese enterprises, supporting academic and entrepreneurial research projects.
- Collaborated with university professors on data organization, enhancing research methodologies and business strategies.
- Designed quantitative analyze model utilizing scenario analysis in Excel to better understand viability and liquidity of business.

FINANCIAL & QUANTITATIVE DATA COLLECTOR, AO XIANG TRADING FZCO

Remote Data Collector & Analyst 01/2023 –09/2023

- Determined and optimized inputs such as but not limited to hurdle rate, required rate of return on capital, Value at Risk (VaR), Weighted Average Cost of Capital (WACC), etc. for company's projects.
- Contributed to developing professional research documentation, advancing academic and business research capabilities.