MADELINE LIN
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EDUCATION

Monroe College; New Rochelle NY   **April 2022 - April 2023**
Post Masters Certificate Data Science   GPA: 4.0/4.0
- Core Courses: Machine Learning, Statistical Computing, Object Oriented Software, Database Systems, Data Science, Big Data Management and Analytics, Analytic Techniques, Applied Data Science Project

University of Texas at Austin; Austin TX   **Jul 2018 - May 2020**
Master of Quantitative Economics   GPA: 3.51/4.0
- Core Courses: Econometrics, Microeconomics, Macroeconomics, Statistics, Data Mining, Econometrics with R, Causal Inference, Computer Programming: Python, Business Analytics & Decision Modeling

Shanghai Maritime University; Shanghai China   **Sep 2014 - Jul 2018**
Bachelor of International Accounting   GPA: 3.76/4.0
- Core Courses: Financial Accounting, Financial Management, Calculus, Statistics, VB Programming, Linear Algebra, Marketing Analytics, Public Finance, International Finance, Monetary and Banking

EXPERIENCE

Deloitte - *Transfer Pricing Consultant*; New York NY   **June 2021 - Present**
- Conducted due diligence on intercompany transfer pricing policy of multinational enterprises in a wide variety of industries
- Implemented comprehensive benchmark studies on financial metrics, assessed functions and risks, analyzed emerging industry trends, and developed an econometric model to evaluate the impact of ESG activities on company profitability
- Led fact-finding discussions, analyzed value chain alignment analysis, evaluated current state metrics, and designed an efficient business license model resulting in significant tax savings
- Conducted in-depth interest rate analysis and debt capacity analysis, leveraged financial models and tools to assess risk, and provided data-driven recommendations for optimized financial decision-making
- Participated in client calls, recorded meeting minutes, coordinated internal teams, updated the weekly project status quadrant, tracked project manual, and monitored related action items

CertiK - *Economic Research Intern*; New York NY   **Dec 2019 - Jan 2020**
- Supported blockchain security industry in economic analysis of Ethereum 2.0, using statistical techniques to build a validator economic incentive model and evaluate the feasibility and profitability of Proof of Stake algorithm
- Researched on Cosmos Network and demonstrated via a 45-minute presentation on the key findings and implications

PROJECTS

Life Science Accounts Scan - *Deloitte Firm Initiative Project*; New York NY   **May 2023 - Present**
- Contributed to the development of reporting dashboards for the life science industry, utilizing Tableau to visualize performance metrics and key insights from collected survey data
- Reviewed and analyzed the critical issues from the results, assessed business risks and impact and facilitated proper recommendations and escalations to senior management to drive timely and effective resolution

Healthcare Analytics Platform - Artificial Intelligence - *Deloitte Firm Initiative Project*; New York NY   **May 2023 - June 2023**
- Collaborated with software engineers on natural language processing ontology driven matching algorithms
- Designed the user interface for the healthcare data mapping process, transformed the UI designs into functional and interactive elements, and contributed to front end development of the application

Fraud Detection In Banking Industry - *Deloitte Hackathon Competition*; New York NY   **May 2023**
- Identified and assessed potential risk issues within financial crime risk segment
- Applied machine learning techniques to enhance banks' fraud detection capabilities by automating the process and reducing the need for human intervention through various types of binary classification models (i.e. logistic model, decision tree, random forest model)
- Evaluated model accuracy using various metrics such as precision, recall, and F1-score

Spotify Personal Music and Recommendation System Analysis - *Individual Project*; New York NY   **April 2023**
- Created data visualizations to understand personal music tastes and listening habits
- Built the optimal stream prediction model based on track audio features (i.e. danceability, energy, liveness, key, etc.) through regression models, stepwise selection, and decision tree methods, and proposed a better recommendation system

SKILLS

Computer Skills: Python, R, SQL, Stata, Tableau, Power BI, Microsoft Suites
Certificates: Advanced Data Science Certificate, AWS Cloud Practitioner, AWS Machine Learning - Specialty