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   **July 2018 - May 2020**
Master of Quantitative Economics   GPA: 3.51/4.0
- Core Courses: Econometrics, Microeconomics, Macroeconomics, Statistics, Data Mining, Econometrics with R, Casual Inference, Computer Programming: Python, Business Analytics & Decision Modeling, Industrial Organization

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

EXPERIENCE

Deloitte - *Transfer Pricing Consultant*; New York NY   **June 2021 - Present**
- Analyzed intercompany transactions and conducted due diligence on transfer pricing policy of multinational enterprises
- Collected, processed, and analyzed financial data from relevant databases, implemented benchmark studies on financial metrics, assessed functions and risks, and monitored regulatory and business change and resultant impact on transfer pricing
- Conducted in-depth interest rate analysis and debt capacity analysis, leveraged financial models and tools to assess risks, and provided data-driven recommendations for optimized financial decision-making
- Developed an econometric model to evaluate the impact of ESG activities on company profitability
- Participated in client calls, recorded meeting minutes, coordinated with internal teams, and monitored 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

PROJECTS

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

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

Fraud Detection in Banking Industry - *Deloitte Hackathon Competition*; New York NY   **May 2023**
- Analyzed transaction data and client information data, transformed categorical data into numerical data type
- Applied machine learning techniques to enhance banks' fraud detection capabilities by automating the process and reduce the need for human intervention through various types of binary classification models
- Evaluated model accuracy using various metrics such as prevision, recall, and F1-score

Spotify Personal Music and Recommendation System Analysis - *Individual Project*; New York NY   **April 2023**
- Utilized SQL queries to extract valuable insights, such as top artist/track, streaming patterns, and created data visualizations to understand personal music tastes and listening habits
- Built the streaming prediction model based on track audio features (i.e., danceability, energy, liveness, tempo) through various regression models and proposed a better recommendation system

SKILLS

Computer Skills: Python, R, SQL, Stata, Tableau, Power BI, Microsoft Suites
Certificates: AWS Machine Learning Specialty, AWS Cloud Practitioner, Oracle SQL Explorer
Hobbies: Lift weights, Taste cheese, Binge on Music, Bike around the city, Watch classic films