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**
- Worked with Ph.D. economists and tax specialists to analyze and resolve international transfer pricing issues faced by multinational enterprises in a wide variety of industries
- Developed econometric models to assess ESG activities on company's profitability, performed benchmark studies on financial metrics，researched and identified macro industry trends for informed decision-making
- Conducted fact-finding discussions to understand business operations and transaction flows, performed value chain alignment analysis to identify key business drivers, designed an efficient business license model, leading to substantial tax savings

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

Austin Film Festival – *Data Analytics Intern*; Austin TX   **May - June 2019**
- Conducted sales forecast analysis for film badges, created data visualizations for film submissions, and produced a 3-page report with insights for marketing campaigns
- Identified key customer segments, examined the purchasing patterns and preferences, and optimized marketing strategies

PROJECTS

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

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, utilized Tableau to visualize performance metrics and key insights from collected survey data, and monitor and evaluate dashboard effectiveness

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
- Conducted a comparative research study of Support Vector Regression and Feedforward Neural Network on Spotify recommendation system

The Natural Gas Demand Model - *Individual Project*; Austin TX   **May 2020**
- Collected and organized demand, price, temperature, policy, GDP, etc. to multivariate time series data frame
- Built vector auto regression model, smoothed average method, log-linear regression model to predict natural gas demand for the next 10 years and offer potential solutions to policy makers

SKILLS

Computer Skills: R, Python, SQL, SAS, Tableau, PowerBI, Stata, Hadoop, AWS Cloud Practitioner (learning), AWS Machine Learning (learning)
Hobbies: Lift weights, Taste cheese, Binge on music, Bike around the city, Watch classic films