

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
- Societies: Longhorn French Society Member, TeXercise Club Member

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
- Societies: Vice president of Accounting Club, World Archery Club Member

EXPERIENCE

Deloitte - Transfer Pricing Consultant; New York NY

June 2021 - Present

- Work with Ph.D. economists, tax attorneys and tax specialists in a team environment to analyze and resolve international transfer pricing issues faced by multinational enterprises in a wide variety of industries
- Performed detailed economic and financial data analyses, as well as more complex modeling and empirical analyses

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

Healthcare Analytics Platform - Artificial Intelligence - Deloitte Firm Initiative Project; New York NY

May 2023 - Present

- 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 Account 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 key metrics and insights from collected survey data, and monitor and evaluate dashboard effectiveness

Spotify Personal Music and Recommendation System Analysis - Individual Project; New York NY

July 2022

- 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

The Micro Communities in the Chinese Stock Market - Research Assistant; Shanghai China

May 2017

- Assisted with a panel data model research of external investment analysis for Chinese companies with similar capital structures
- Cleaned up data format, aggregated data, designed charts of different types of shares for 50 companies from monthly to annual

SKILLS

Computer Skills: R, Python, SQL, SAS, Tableau, PowerBI, Stata

Hobbies: Lift weights, Taste cheese, Binge on music, Bike around the city, Watch classic films