MADELINE LIN
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PROFESSIONAL EXPERIENCE

Deloitte – *Transfer Pricing Senior Consultant, Investment Management Industry*; New York NY   **Jun 2021 - Present**
- Worked with global team to deliver transfer pricing services to multinational corporations with AUM ranging from $17B to $51B within PE, mutual funds, hedge funds, and other asset management industries, facilitated optimized financial decision-making through in-depth quantitative analysis of their intercompany financial transactions, such as intercompany loan, foreign exchange trades, cross-border financing, asset pricing, business valuation, etc.
- Performed 80+ comprehensive interest rate analysis, debt capacity analysis, and cash flow analysis for land banking blocker and borrower intercompany loans under a REIT structure, leveraged financial models to benchmark LBOs and CLOs against target IRR, prepared transfer pricing memorandums and documentation
- Conducted qualitative industry research to analyze the market trends, key challenges and opportunities for 50+ clients, performed functions, risk, asset analyses, and applied accounting, capital adjustments to evaluate key financial operating metrics or interest rates ratios, including considerations such as tenor, time, subordination, and credit rating
- Carried out intellectual property valuations, identified key components, estimated their economic useful life, benchmarked the WACC, applied the DCF model to propose potential intercompany business licensing transaction, leading to ~10% in tax savings
- Applied statistical modeling techniques to evaluate the financial impact of ESG activities on intercompany transactions, resulting in a 15% improvement in financial efficiency and risk management for clients
- Spearheaded the integration of data technology software (i.e. Workiva) for automated generation of transfer pricing reports, developed an innovative streamlined process that significantly improved project operating margins from ~45% to ~88%

PROJECTS & INTERNSHIP

Deloitte AI & Data Firm Contribution Projects – *GenAI Ambassador*; New York NY   **Jun 2023 - Present**
- Supported the pharma firm shape its GenAI roadmap, focusing on innovative solutions to boost operational efficiencies across multiple domains, managed the technical architecture, and ensured compliance with regulatory, cybersecurity, and data privacy
- Supported the investment management firm to identify critical data element based on the input documents, implemented the data platform modernization, utilized GenAI framework and accelerators to generate the business glossary definition and data quality rules
- Collaborated with software engineers on NLP ontology driven matching algorithms for healthcare analytics platform, designed UI for healthcare data mapping process, and integrated LLMs across all layers of the application
- 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

Practical Python with Applications in Finance – *Individual Project*; New York NY   **Jun 2024**
- Developed and implemented a comprehensive asset backed security model, incorporated cashflow calculations via a waterfall mechanism, financial metrics analyses (i.e. IRR, DIRR, AL), and risk assessment through Monte Carlo simulations

Machine Learning Analysis on Spotify Recommendation System – *Individual Project*; New York NY   **Feb 2023 - Apr 2023**
- Built an advanced stream prediction regression model utilizing track audio features such as danceability, energy, liveness, key, employed rigorous regression techniques through stepwise selection, and decision tree methodologies
- Conducted an in-depth comparative analysis of machine learning algorithms, specifically Support Vector Regression and Feedforward Neural Network, to optimize Spotify's recommendation system for enhanced quantitative performance

Austin Film Festival – *Data Analytics Intern*; Austin TX   **May 2019 - Jun 2019**
- Created data visualizations for film submissions, utilized clustering and PCA methods to identify key customer segments, summarized customer purchasing patterns and preferences, and optimized overall marketing strategies

EDUCATION

Monroe College; *Post Master Data Science*; New Rochelle NY   **Apr 2022 - Apr 2023**
- GPA: 4.0/4.0   *Relevant 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; *Master of Quantitative Economics*; Austin TX   **Jul 2018 - May 2020**
- GPA: 3.51/4.0   *Relevant Courses*: Econometrics, Data Mining, Probability and Statistics, Causal Inference, Computer Programming Python, Business Analytics & Decision Making, Financial Statement Analysis

Shanghai Maritime University; *Bachelor of International Accounting*; Shanghai China   **Sep 2014 - Jul 2018**
- GPA: 3.82/4.0 GRE: 169(Quant)   *Relevant Courses*: Microsoft Access, Statistics, Linear Algebra, International Finance, Financial Management, Monetary and Banking

TECHNICAL PROFICIENCIES

Skills: Python (Advanced), R (Advanced), SQL (Intermediate), Tableau (Advanced), PowerBI (Intermediate), Microsoft Suites (Advanced)
Databases: S&P Capital IQ, Bloomberg, Moody's, Pitchbook, Morningstar, Moody's, Eikon, Leveraged Commentary & Data
Certificates: AWS Machine Learning - Specialty, AWS Cloud Practitioner, Deloitte Tableau Specialist, Deloitte GenAI Prompt Engineer, Practical Python with Applications in Finance (Distinction), Currently preparing for CFA I (November)