

Yue Yin

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EDUCATION

M.S. in Business Analytics

Boston University, Questrom School of Business

Expected Dec 2026

Boston, MA

B.S. in Mathematics & Statistics (Honors)(Dr. James A. & Connie P. Dickson Scholarship In Science & Mathematics)

University of Toronto

Sep 2021 - Jun 2025

Toronto, Canada

WORK EXPERIENCE

Business Analyst Intern

NIO Co., LTD (NYSE: NIO)

May 2024 - Aug 2024

Shanghai, China

- Led data cleaning and exploratory data analysis for 18 auto sales outlets using Python (**Pandas, NumPy, Matplotlib**), closely **collaborating** with outlet teams to **coordinate** data retrieval and cleaning, uncovering sales trends that boosted Q2 2024 revenue by **5%** and improved client retention by **8%**, enhancing cross-team cooperation
- Built automated dashboards using **Python (Matplotlib, Seaborn, Plotly)** for sales, inventory, and customer data across 18 outlets, cutting team reporting time by **40%** and enabling faster team decisions
- Initiated and managed the development of a daily learning system for the sales team and designed a subscription model with a scoring mechanism, driving employee productivity and contributing to a **20%** increase in customer satisfaction

Data Analyst Intern

Suzhou Emergency Management Bureau

May 2023 - Aug 2023

Suzhou, China

- Developed **predictive models** with **SAS, Python, and R** to forecast emergency incidents and categorize risks with colleagues, enabling data-driven safety planning, resulting in a 90% complaint reduction
- Designed and implemented an emergency management database system in 2023, utilizing **SQL and Python** to optimize **cross-departmental** data quality and accelerate emergency response decisions across 10+ departments
- Designed a **Tableau** dashboard visualizing high-density personnel areas and fire-prone locations, supporting risk analysis and boosting inspection efficiency between teams

Finance Analyst Intern

Agricultural Bank of China

June 2022 - Aug 2022

Shanghai, China

- Utilized **Excel and SQL** to analyze financial and operational data for 20+ corporate loan applications, generating risk insights and supporting 1B+ RMB in funding decisions
- Leveraged financial ratio analysis and applied the Altman **Z-score model** to evaluate default risk and financial stability for **50+ firms**, assessing equity structure and capital adequacy to inform risk recommendations for a 500M+ RMB loan portfolio
- Produced actionable, data-driven credit risk recommendations by applying **Excel** and **SQL** analysis, contributing to a 10% reduction in default rates and enhanced client financial stability across the portfolio, strengthened client financial stability

PROJECTS EXPERIENCE

Predicting Airbnb Prices in New York City

Research Project

November 2025 - December 2025

Boston, MA

- Engineered a machine learning-based price prediction model in **Python** using **48,000+** NYC Airbnb listings, extracting multi-dimensional pricing patterns across property, host, location, and listing characteristics to understand price variation and inform data-driven pricing strategies
- Built and optimized machine learning **pipelines**, performing data cleaning, exploratory data analysis, and feature engineering, and training **multiple linear and non-linear regression models** to capture price patterns across listings
- Evaluated and compared multiple regression models using **cross-validation** and **performance metrics** (RMSE, MAE, R^2), assessing model stability via the **standard deviation of validation results** to derive actionable pricing insights and support data-driven pricing and market positioning decisions

Mapping the Skies: A Data-Driven Analysis of U.S. Flight Delays

Team Project

October 2025 - December 2025

Boston, MA

- Led cross-functional data analysis with teammates using BigQuery and SQL**, processing a **7.1M+** U.S. flight dataset to conduct exploratory analysis and identify systemic delay patterns affecting airline and airport operational performance
- Performed advanced **SQL** analysis using **window functions** to compute time- and airline-level delay metrics, integrating results into **interactive Tableau dashboards** for multi-dimensional analysis
- Translated complex delay patterns into actionable operational insights, highlighting delay-prone airports, routes, and peak congestion periods to enable data-driven scheduling, capacity planning, and airline performance optimization

SKILLS

Technical Skills: Python (pandas, NumPy, scikit-learn, XGBoost, matplotlib, seaborn, Plotly), R, SQL, SAS, Tableau, Excel

Analytical Skills: Data analysis, predictive modeling, regression analysis, exploratory data analysis (EDA), feature engineering, model evaluation, data visualization, dashboard development, stakeholder communication