Xinjing Guo

+1 (917) 756-3019 | xg2404@nyu.edu | Brooklyn, NY 11201 | Personal Website | LinkedIn

SKILLS

- **Programming & Tools**: Python, R, SQL, MongoDB, Power BI, Tableau, Excel, SAS
- **Data Science & Analytics**: Regression Modeling, Classification, Feature Engineering, Time Series Forecasting, A/B Testing
- **Soft Skills**: Cross-functional collaboration, Data storytelling, Detail-oriented, Critical thinking, Decision-making

PROFESSIONAL EXPERIENCE

Finovax Technologies Inc. New York, U.S.
Financial Data Analyst 4/2025 – Present

- Developed a scalable Python-based credit spread tool using FRED API and Plotly to track Aaa, Baa, and HY spreads vs 10Y Treasuries; improved the team's ability to detect early credit stress and optimize bond allocation amid shifting macro conditions.
- Developed a Python-based screening tool using Tushare API to analyze over 100 Chinese ETFs; applied autocorrelation filters and ADF tests to identify ETFs with persistent trends and non-stationary price behavior. Selected ~30 ETFs suitable for trend-following and time-series forecasting models, improving research efficiency and supporting quantitative strategy development.
- Built an interactive Python dashboard to analyze 11 U.S. large-cap stocks using yFinance, Plotly, and Dash; visualized 50/200-day moving averages, RSI, MACD, and 30-day volatility to detect trend shifts, volatility clusters, and entry/exit signals. Improved investment decisions by identifying bullish crossovers and overbought/oversold conditions across sectors.

Publicis Groupe Beijing, China
Data Analyst Internship 5/2024 - 9/2024

- Analyzed 50K+ sales and customer records across 30 cities using **SQL** and **Python**; uncovered churn drivers and repeat behavior patterns to support regional marketing strategies, communicated findings to cross-functional teams to inform campaign direction.
- Built and compared **Logistic Regression, Random Forest, and XGBoost** models to predict high-conversion customer segments; model blending improved campaign forecast accuracy by 17%.
- Automated SQL pipelines to integrate **CRM, POS**, and **inventory data** for weekly behavioral reporting; reduced manual effort by 30% and enabled faster business decision-making.
- Developed interactive **Power BI** dashboards with real-time SQL integration to help regional teams monitor sales and inventory; cut overstock by 12%, improved demand forecasting accuracy, and communicated regional insights to business teams.

Guotai Junan Securities Shanghai, China
Investment Banking Analyst Intern, Equity Capital Markets 9/2022 – 12/2022

- Analyzed 25+ IPOs by reviewing P/E ratios, EV/EBITDA multiples, and deal terms to support risk and valuation assessments.
- Cleaned and modeled IPO data using **R (dplyr, ggplot2, lm)**, applying **multivariate regression** to identify key drivers of post-IPO performance. The model achieved an R^2 of 0.68, with underpricing and sector as significant predictors ($P < 0.01$).
- Conducted A/B-style testing on investor outreach strategies using t-tests and confidence intervals, increasing engagement by 12%.
- Designed interactive dashboards in **Tableau** and **Power BI** to visualize investor profiles, cross-shareholding patterns, and market positioning. These tools enhanced underwriting decisions and shortened internal review cycles by ~20%.

China International Capital Corp (CICC) Beijing, China
Financial Analyst Intern, Equity Capital Markets 5/2022 - 9/2022

- Conducted fundamental and quantitative analysis on the Chinese healthcare sector to support strategic allocation within a $50M portfolio, collaborating with investment teams to identify medical device firms like Peijia and Venus Medical.
- leaned and structured financial disclosures to build scenario-based valuation models (top/base/down cases) for 10+ A-share IDC firms, improving risk-adjusted positioning.
- Trained **Random Forest** and **XGBoost** models in R to predict earnings surprises and flag undervalued stocks; models achieved **AUC > 0.80**, enhancing idea generation efficiency by 30%.
- Extracted and scored sentiment from analyst reports and earnings calls using **tidytext** and **sentimentr**, delivering **composite scoring dashboards** that supported fund manager decisions and reduced manual reporting time.

PROJECT EXPERIENCE

New York University New York, NY
Forex Trading Model Using Machine Learning ProjectLink 9/2024 - 12/2024

- Built an end-to-end forex data pipeline using **Python** and **PyCaret** to forecast 8 currency pairs, integrating real-time market data (**Polygon API**) and storing historical trends in **MongoDB**.
- Engineered macroeconomic and volatility features, evaluated regression models via **R^2/RMSE**, and visualized prediction accuracy with **matplotlib** to support strategy analysis and risk monitoring.

EDUCATION

New York University New York, NY
Master of Management of Technology (STEM, analytics-focused), GPA: 3.68/4.0 9/2023 - 12/2024
University of Toronto Toronto, ON
Bachelor of Science: Economics and Statistics (Dual Major), GPA: 3.34/4.0 9/2018 - 6/2023