

Qin Jiayue

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Education

National University of Singapore, MS in Data Science and Machine Learning Aug 2024-Dec 2025

- **Key Courses:** Introduction to Big Data for Industry(A+), Data Science in Quantitative Finance(A-), Principles of Data Management and Retrieval(A-)

East China Normal University, BS in Statistics

Sep 2020-Jun 2024

- **Key Courses:** Probability Theory and Mathematical Statistics (98), Machine Learning (99), Time Series Analysis (92), Bayesian Statistics(100); **Awards:**University-level Scholarship (Second and Third Prize)

Internships

Data Science Teaching Assistant, NUS – Singapore

Nov 2024 – NOW

- Assisted professor in workshop, covering topics such as Airflow workflow management, deep learning with PyTorch, and business problem-solving using Retrieval-Augmented Generation (RAG) and LangChain frameworks. Documented the problems and solutions for future reference and easy access.

Data Modeling Intern, LVMH – Shanghai, CH

Feb 2024 – Jul 2024

- **Feature Engineering:** Cleaned and explored large-scale user and product data using **Dataphin SQL**, building over 1,000 features related to users and products, enhancing the foundational quality of data analysis.
- **Model Analysis:** Assisted in implementing models based on brand requirements, specifically for predicting potential customers using machine learning. Developed an **XGBoost model** to forecast user purchasing behavior, adjusted the model according to business needs, achieving an AUC of 0.8 and **increasing purchase rate by 350%-440%**.
- **Dashboard Development:** Built real-time data monitoring dashboards using **QuickBI**, covering user purchase metrics (AUS, IPT, etc.), model performance, and data source quality, improving decision-making efficiency in business data.

Research Intern, Zhongyan Technology – Shanghai, CH

Jul 2023 – Nov 2023

- **Data Analysis:** Assisted the research department in preparing reports for brand clients. Extracted core keywords from McDonald's review data and performed **visual analysis** to interpret user satisfaction, proposing targeted marketing strategies.
- **Statistical Analysis:** Conducted statistical analysis on survey data from Jiuyang across multiple regions, including **significance testing**, to provide data support for product market positioning and user profiling.
- **Tool Development:** Developed a **web scraping tool** based on Python Selenium and Requests libraries, significantly improving data collection efficiency by 60% through the rapid extraction of massive amounts of store and review data.

Projects

Prediction of Chinese NEV Sales and Evaluation of Regional Policy Effects

Jan 2024 – May 2024

- **Feature Engineering:** Collected macroeconomic, policy, and product data, and performed data cleaning and feature engineering using Python (Numpy, Pandas), extracting 11 features.
- **Model Construction:** Built **SARIMA and LSTM models** to forecast monthly sales of new energy vehicles in China. The LSTM model, incorporating macroeconomic factors, improved accuracy with MAPE reduced to 12.91%.
- **Policy Evaluation:** Applied **synthetic control methods** to evaluate the actual impact of non-subsidy policies on new energy vehicle sales and provided policy optimization recommendations.

Skills and Languages

Programming Skills: Python, SQL, R, QuickBI, SPSS, ThinkCell

Analytical Skills: Machine Learning, Experimental Design, Data Visualization, Data Crawling, Industry Research

Languages: PIELTS 7.0, GRE 321 **Hobby:** Guzheng Level 10