

Xinyuan Zhao

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EDUCATION

Northeastern University	Boston, USA
<i>Master of Science - Data Science</i>	09/2023 ~ 04/2025
University of Alberta	Edmonton, Canada
<i>Bachelor of Science - Computing Science</i>	08/2018 ~ 12/2022

SKILLS

- **Programming** C/C++ • Python (Pandas, Scikit-Learn, Matplotlib) • Java • Python • Excel (Pivot, Lookup)
- **Analytics** SQL • Machine Learning • Data Mining • ETL • Dashboarding (Tableau) • A/B Testing

WORK EXPERIENCES

Yanc Data Consulting Toronto, Canada
Intern Data Analyst 10/2022~12/2022

- Implemented credit scoring models to evaluate the creditworthiness of loan applicants and predicted loan default possibility based on user demographics with decision tree and random forest, achieving an AUC of ~0.8
- Utilized SQL aggregate functions and advanced database querying techniques to extract, manipulate and analyze banking and financial data; visualized the patterns and trends from risk assessment in Excel
- Used Tableau Story to tell data narratives on key risk management metrics, such as portfolio diversification

Global AI New York, USA
Intern Data Scientist 07/2022 ~ 09/2022

- Developed a web scraper with Python to extract JSON data; utilized Pandas, Numpy and Matplotlib to perform exploratory data analysis, summarize the data extraction results and clean the stock data for modeling
- Built pivot tables and wrote SQL common table expressions to aggregate and analyze stock data efficiently
- Perform in-sample and out-of-sample forecasting at different frequencies using linear regression as baseline; evaluated the performance of ARIMA, SVM, and Holt-Winter machine learning models w/ MSE & R-Squared
- Built a daily running ETL to integrate new stock data into the time series, clustering & classification models
- Coordinated with research and engineering to document machine learning knowledge and use guide

Majorel China Shanghai, China
Intern Data Analyst 05/2021 ~ 08/2021

- Responsible for data collection, cleaning, preprocessing, exploration and analysis for FMCG industry; used SWOT and Porters' Five Forces to analyze industry & market conditions
- Designed A/B testing by defining a clear hypothesis, selecting a representative sample to randomly divide into control and treatment groups; measured the impact of pricing and promotion on sales and customer behavior
- Conducted funnel analysis to identify bottlenecks in customer journey and improve the overall conversion rate
- Designed a Tableau dashboard with single metric, bar charts, heat maps and scheduled delivery to stakeholders
- Diagnosed sales volume metric drop with SQL to analyze root cause and provide data-driven recommendations

RESEARCH & PROJECT EXPERIENCE

Android Software Development 09/2021 ~ 12/2021

- Led a team of 6 to build an Android app that helps users track habits; set up CI/CD pipeline w/ Github Actions

Database Management Program 09/2021 ~ 12/2021

- Developed a database management program which allows users to view, create, delete, and modify database
- Applied Python and MongoDB and used data manipulation statements in SQL to implement database calls

uLearnify App Development 09/2022 ~ 12/2022

- Developed a web app on educating special needs children by using a technology stack that includes Node.js, PostgreSQL, Sequelize ORM, React, and Cybera RAC; Used Typescript to provide accessible UI