

# Yunzhao (Daniel) Li

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Data Scientist | Quantitative Analyst & Researcher | Data Engineer | Machine Learning Engineer

## SKILLS

- **Programming Languages:** Python, R, SQL, Java
- **Analytics Tools:** Scikit-learn, Pandas, NumPy, PyTorch, Spark, Matplotlib, Jupyter Notebooks, Excel, Git/GitHub
- **Machine Learning:** Supervised/Unsupervised Learning, PCA, Time Series Forecasting (MLP, CNN), Feature Engineering
- **Data Engineering & Databases:** Data modeling, ETL/ELT workflows, SQL optimization, pipelines, API integration
- **Soft Skills:** Problem Solving, Collaboration, Effective Communication, Project Management, Leadership, Presentation

## EDUCATION

Western University, London, ON	Sep 2025 – Aug 2026
• Master of Data Analytics	
• Relevant Coursework: Artificial Intelligence, Databases, Machine Learning, Unstructured Data, Reinforcement Learning	
University of Toronto, Mississauga, ON   Annual GPA: 3.76	Sep 2020 – Aug 2025
• Honours Bachelor of Science in Statistics Specialist and Mathematics Minor	
• Relevant Coursework: Advanced Statistical Learning & Modeling, Time Series Analysis, Stochastic Processes, Linear Algebra	

## WORK EXPERIENCE

Business Analyst (Internship)   Top Knowledge Co., Toronto, ON	Jun 2025 – Aug 2025
• Conducted in-depth data analysis using <b>VBA/Excel</b> to categorize customer behaviors and needs, enabling the design and implementation of targeted marketing strategies that successfully increased customer retention rates by 17%.	
• Designed and maintained <b>dashboards</b> that streamlined customer reports and enhanced report accuracy, thereby accelerating compliance adaptation and helping management decision-making, resulting in a 15% boost in operational effectiveness.	
• Spearheaded the development of a robust <b>data integration framework</b> , consolidating multiple data sources into a unified SQL database to enhance data accessibility and reliability across business units.	
Data Analyst (Internship)   AstraZeneca (Central Marketing Department), Shanghai, CN	Nov 2022 – Oct 2023
• Analyzed market dynamics and competitor products using <b>Python/SQL/Excel</b> ; built evidence-based visuals ( <b>Tableau/Power BI</b> ) for seminar briefings that cut prep time and improved forecast accuracy by 12%.	
• Processed and reconciled large datasets in Excel ( <b>pivot tables, LOOKUPs, VBA</b> ); delivered weekly performance reports to leadership and partnered cross-functionally.	
• Built and back-tested factor/alpha models in Python ( <b>pandas, NumPy</b> ); automated ingestion/cleaning of market data (e.g., <b>Bloomberg/Quandl</b> ); reduced research runtime by 40% and expanded universe coverage from 300 to 470 tickers.	

## PROJECT EXPERIENCE

Electricity Demand Forecasting   Python, PyTorch, Time-Series ML	Oct 2025 – Nov 2025
• Built a scalable <b>forecasting pipeline</b> for 52k+ <b>time-series</b> entries, integrating preprocessing, temporal splits, and <b>feature engineering</b> (lags, rolling windows, cyclical encodings).	
• Benchmarked <b>Linear/Ridge, MLP, and 1D-CNN</b> architectures using a reproducible 5-run setup; delivered a top-performing CNN that significantly outperformed classical and naive baselines.	
OSFI Risk-Weight Mapping Engine   SQL, Data Modelling	Sep 2025 – Oct 2025
• Built <b>SQL</b> pipeline mapping 1,000+ bonds to OSFI risk weights using multi-agency ratings (S&P, Moody's, Fitch, DBRS); implemented ranking/CTE logic for 1–3+ rating scenarios and sovereign defaults.	
• Optimized <b>query design</b> to improve processing time by 40%, enabling reliable risk reporting for credit-risk teams.	
LexiGO – Language Learning Desktop App   Java, OOP, Clean Architecture, Agile	Jul 2025 – Sep 2025
• Built a <b>Java Swing application</b> with <b>Clean Architecture</b> , enabling adaptive vocabulary learning via flashcards, spaced repetition, and gamified features (streaks, badges, leaderboards).	
• Developed core modules and <b>analytics dashboards</b> with JSON-based persistence, ensuring robust, maintainable code through <b>unit and integration testing</b> , while <b>collaborating</b> in an Agile team using <b>Github</b> .	
Study Habits & GPA Analysis   R, Data Cleaning, Statistical Modeling	Sep 2024 – Nov 2024
• Built a cleaned analytical dataset from 97 survey responses (50-person SRS) using full preprocessing, missing-value handling, and assumption diagnostics ( <b>Shapiro-Wilk, Bartlett, Q-Q plots</b> ) to ensure statistical validity.	
• Applied ANOVA, t-tests, correlation analysis, and ordinal logistic regression to evaluate predictors of GPA. Identified significant negative impact of low preview frequency and communicated insights with ggplot2 visualizations.	