

Yunzhao (Daniel) Li

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

SKILLS

- **Programming Languages:** Python, R, SQL, Java
- **ML & Visualization:** PyTorch, Scikit-learn, TensorFlow, Pandas, NumPy, Spark, Matplotlib, RESTful APIs, GitHub Copilot, Tableau
- **Data Engineering & Databases:** MySQL, Docker, ETL/ELT Pipelines, Azure, Git/GitHub, AWS, Agile
- **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 (3 mos)
• Conducted in-depth data analysis using VBA/Excel 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 dashboards 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.	
Data Analyst (Internship) / AstraZeneca (Central Marketing Department), Shanghai, CN	Nov 2022 – Oct 2023 (1 yr)
• Analyzed market dynamics and competitor products using Python/SQL/Excel; built evidence-based visuals (Tableau/Power BI) for seminar briefings that cut prep time and improved forecast accuracy by 12% .	
• Improved data reliability for weekly business reviews by diagnosing quality issues across fragmented Excel sources; cleaned, validated, and automated pipelines using VBA, PowerQuery, and reproducible workflows, reducing inconsistencies by 28% .	
• Enhanced marketing team decision-making by identifying gaps in existing workflows; designed and deployed interactive Power BI/Tableau dashboards to streamline communication, enabling faster, clearer stakeholder updates across campaigns.	

PROJECT EXPERIENCE

Electricity Demand Forecasting Python, PyTorch, Time-Series ML	Oct 2025 – Nov 2025
• Built a scalable forecasting pipeline for 52k+ time-series entries, integrating preprocessing, temporal splits, and feature engineering (lags, rolling windows, cyclical encodings).	
• Benchmarked Linear/Ridge, MLP, XGBoost and CNN architectures using a reproducible 5-run setup; delivered a top-performing XGBoost model that significantly outperformed classical and naive baselines.	
OSFI Risk-Weight Mapping Engine SQL, Data Modelling	Sep 2025 – Oct 2025
• Designed SQL 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 query design 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
• Developed a Java Swing application with Clean Architecture, enabling adaptive vocabulary learning via flashcards, spaced repetition, and gamified features (streaks, badges, leaderboards).	
• Implemented core modules and analytics dashboards with JSON-based persistence, ensuring robust, maintainable code through unit and integration testing, while collaborating in an Agile team using GitHub.	
Bayesian Analysis of WWII Bombing Target Prioritization R, Feature Engineering, Bayesian OLR	Mar 2024 – Apr 2024
• Processed a 178k-record wartime THOR dataset (filtered to 64k German missions) and engineered analytical features using tidyverse, producing a fully reproducible data pipeline.	
• Constructed a Bayesian ordered logistic regression model (rstanarm) with complete MCMC diagnostics and posterior predictive checks to quantify drivers of Allied target prioritization; project selected for publication in professor's book.	