

Andy Yang

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PROFESSIONAL SUMMARY

- Expert in Data Analytics, with projects in implementing financial modelling solutions, ETL pipelines, data visualization tools for business intelligence, and analyzing key performance metrics
- Master's Degree from UBC's Master of Data Science program, deployed ML and AI projects involving statistical analysis, A/B testing, classification algorithms, neural networks, NLP, and cloud computing
- Strong coding skills in Python, R, and SQL, with proficiency in problem solving and driving big data analytics using tools and platforms such as Apache Spark, Hadoop, AWS (EC2, S3, Lambda), and Azure Databricks

WORK EXPERIENCE

TD Bank Group - Toronto, ON

Senior Data Analyst Model Validation

Apr 2023 - Present

- Winner of the 2024 TD League of Excellence award for leading development of an innovative Python application that automated the consolidation of model validation product reporting and KPIs into Tableau dashboards using a SQL data pipeline, expediting the audit review process by up to 2 weeks per quarter
- Elevated data science workflows by leading the development of PySpark testing scripts (AUROC, Trend Analysis, MLE, etc.), expediting computation over 50% by leveraging distributed computing via Hadoop and Azure DataBricks
- Collaborated with cross-functional teams to develop and refine machine learning benchmark models for a variety of financial products, driving key insights into product success and customer behavior using predictive analytics

Data Analyst Model Validation

Sep 2022 – Apr 2023

- Exhibited excellent time management and prioritization by managing the simultaneous validation of several financial machine learning models: delivering reports and data analysis using SAS, SQL queries, and Python
- Optimized R Shiny dashboards and established version control initiatives in GitHub including CI/CD standards, improving user experience and implementing predictive data visualizations to illustrate validation outcomes
- Showcased excellent communication skills by successfully delivering creative Machine Learning Model KPI presentations at the 2024 TD Risk town hall to technical and non-technical audiences alike

Royal Distributing - Guelph, ON

Implementation Specialist

Apr 2021 – Sep 2021

- Displayed excellent critical thinking ability by optimizing SQL queries to improve query efficiency, restructuring SQL server database schema, and designing custom APIs, expediting ad-hoc queries by over 200%
- Demonstrated strong attention to detail by Integrating numerous product vendors to existing database infrastructure through custom APIs and complex SQL queries on data exceeding millions of rows
- Collaborated with external vendors to perform root cause analysis on data deficiencies and improve data quality

PROJECTS

LiDAR Object Detection and Classification for Cities

May 2022 – Jun 2022

Reliance Foundry Co. Ltd. UBC MDS Capstone

- Trained and optimized convolutional neural network algorithm end-to-end on AWS using PyTorch to perform 3D data visualization and object prediction within LiDAR point clouds, achieving an average precision score of over 93%
- Winner of the Top 3 Capstone Project Award of the UBC MDS 2023 Cohort

EDUCATION

Master's of Data Science

Sep 2021 – Jul 2022

University of British Columbia, Vancouver, BC

Bachelor's of Applied Science in Chemical Engineering

Sep 2016 – Apr 2021

University of Waterloo, Waterloo, ON

SKILLS

Coding and Tools: Python (Matplotlib, Seaborn, Plotly, Pandas), R (Rshiny), Jupyter Notebooks, PySpark, GitHub

Statistics: Hypothesis Testing, Segmentation Analysis, A/B testing, Probability Distributions, Generalized Linear Modelling

Data Platforms: SQL, NoSQL, PostgreSQL, Hadoop, Tableau, Power BI, AWS, Spark, SAS (certified in 9.4), MS Azure