647-936-8904 | Toronto, ON | fionaaa2017@gmail.com | Personal Page | Fiona Liu

TECHNICAL SKILLS

Programming: SQL · Python · R · MATLAB · VBA · JavaScript · HTML · CSS · Flask

Analytics: Python · Excel · Tableau · Power BI

Platform: GitHub · Jupyter Notebook · Spyder · Visual Studio· Google Analytics · JIRA

Business: CFA I · FRM I · Porter's Five Forces · SWOT · PEST · Agile & Waterfall Project Management

Modelling: Machine Learning · Classification · Regression · Clustering · Ensemble Learning · Boosting · Deep Learning · A/B testing

EXPERIENCE

Alibaba Group Hangzhou, China

Data Scientist Nov 2023 - Sept 2024

Led data-driven analysis across multiple departments to optimize operational efficiency, contributing to a 15% improvement in supply chain logistics for Alibaba's e-commerce platform.

- Managed end-to-end business analysis for Alibaba's customer insights team, leveraging large datasets to extract actionable insights that drove a 12% increase in customer retention.
- Collaborated with cross-functional teams, including product, engineering, and marketing, to implement data solutions that supported strategic decision-making, resulting in a 10% increase in revenue for Alibaba's international e-commerce division.
- Spearheaded a project to develop predictive models for demand forecasting, reducing overstock and understock issues by 18% through better alignment with market trends.
- Presented complex data findings to senior leadership and stakeholders, translating technical insights into strategic recommendations that enhanced Alibaba's competitive positioning.
- Utilized tools such as SQL, Python, and Tableau to analyze large datasets, automate reports, and create interactive dashboards for real-time performance monitoring across key business units.

RBC Toronto, ON

Associate Director, Capital Markets Analytics

Sep 2022 - Oct 2023

- Optimized counterparty credit risk processes using data analytics, driving significant process improvements.
- Developed a Python-based model to predict long-term bond rates, enhancing risk management decisions.
- Built a credit risk model to estimate expected losses on bank loans, aiding in more informed credit decisions.
- Automated a liquidity analysis process, reducing processing time and improving accuracy across multiple asset classes.
- Streamlined the USPR monitoring process, cutting down processing time by 6+ hours and boosting data accuracy by 60%.
- Collaborated with cross-functional teams to deliver data-driven solutions aligned with business goals.

Manager, Data Analytics Mar 2021 - Sep 2022 Jul 2019 - Mar 2021

Associate, Data Analytics

- Created a customer segmentation model using Python to enhance service personalization and resource allocation.
- Launched a web-based tool for client and sales recommendations, improving decision-making and customer service.
- Established and led a Middle Office Service Team, optimizing collateral management and trade matching through automation.
- Saved 90% in processing time by automating reconciliation, reporting, and other processes using VBA, Python, and SQL.
- Led margin call management and reconciliation efforts, identifying risk areas and optimizing collateral strategies.
- Contributed to securing over \$1 Billion in new assets under administration by enhancing client experience and operational efficiency.

BMO Toronto, ON

Associate, Business Analyst

Jun 2018 - Jul 2019

- Leveraged data analytics to identify comprehensive insights, aiding in better risk management and decision-making.
- Achieved F1 score of 89% in predicting repayment abilities of credit applicants by logistic regression and random forest models.
- Improved efficiency by 30% and reduced cost by 15% by automating reconciliation process of data manipulation and strategy applying in VBA.

TD Toronto, ON

Lead Operations Officer

Jul 2016 – May 2018

- Implemented automation process by using VBA macro to reconcile settlement data, significantly reducing processing time by 1 hour and minimizing human errors and risk incidents.
- Extracted and analyzed data from SQL server, creating interactive data visualizations in Tableau to derivatives trade confirmation.

EDUCATION

Master of Finance, Saint Mary's University

2012 - 2013