Oliver K. Pan

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EDUCATION

University of Toronto

B.Sc in Statistics & B.B.A in Finance with a Minor in Computer Science

September 2018 - May 2023

• Relevant Coursework: Linear Algebra, Probability, Quantitative Methods in Economics, Calculus of Several Variables, Computer Science (Python & C), Derivative Markets

EXPERIENCE

Data Science Intern, CIBC Data Studio

May 2021 - August 2021

- Customizes and designs NLP pipeline, using SpaCy for Named Entity Recognition and Markov chains for sentence generation, delivering results to various stakeholders.
- Optimizes end-to-end performance of web application by 70%, using **ReactJs** to deploy machine learning model and **Python** to scrape websites, creating internal functions for business use.

Data Management Operations Intern, Ontario Teachers' Pension Plan October 2020 - December 2020

- Developed ETL process for Quantitative Research project, writing 100+ SQL queries and building Python scripts on 32 critical datasets to detect breaches in data extraction, capturing 100% of critical incidents during 2 months of production.
- Automated 10+ Python scripts, notifying business stakeholders by email notifications, which resulted in saving two hours of daily work for a team of eight members.

Data Science Intern, Royal Canin

June 2020 - August 2020

- Filtered 300,000 consumer purchases using pandas and built machine learning models such as XGBoost to analyze feature importance, which resulted in company investment of \$30,000 into marketing activities.
- Generated \$100,000 investment for future promotions by developing A/B tests on four years of historical data to analyze impact of promotions on subscription service, working with cross range of teams.
- Deployed web application using **Streamlit** from a **CatBoost model**, conducting cross-validation for an accuracy of 90% F1 Score to assist veterinarians in the diagnosis of urolith stones for thousands of pets.

Data Analyst Intern, CardSwap Inc.

September 2019 - December 2019

• Increased transaction processing speed by 25%, successfully identifying and analyzing the data of over 500+ customers, which resulted in business transactions of over \$4000 daily.

PROJECTS

Menda | Hack Western 7 (Awarded Best Health Hack)

• Developed mental health management application which utilized **OpenCV** for emotion detection and **nltk** for sentiment analysis, resulting in personalized media recommendations for mental wellbeing.

SKILLS

- Languages & Frameworks: Python, HTML, CSS, JavaScript (ReactJS), C, Git, Flask
- Data Science: pandas, numpy, seaborn, matplotlib, plotly, Streamlit, Jupyter Notebook, Tableau
- Big Data: SQL (Oracle, MS SQL, MySQL), AWS, Apache Airflow
- Machine Learning: scikit-learn, Keras, Tensorflow, OpenCV, nltk, SpaCy, FBProphet, PyTorch