Oliver K. Pan

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SKILLS

Programming Languages: Python, SQL (Oracle, MS SQL), HTML, CSS, JavaScript, C, Git
Data Science: pandas, numpy, seaborn, matplotlib, plotly, Streamlit, Jupyter Notebook, FBProphet, Tableau
Machine Learning: scikit-learn, Keras, Tensorflow, OpenCV, nltk

WORK EXPERIENCE

Data Management Operations Intern, Ontario Teachers' Pension Plan   09/20 - 12/20
- Developed **ETL** process for Quantitative Research project, writing **100+ SQL queries** and building **Python** checks on 32 critical datasets, 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.
- Presented project findings to over **30+** company employees, ranging from analysts to directors and translating technical ideas to business solutions, which enabled in future investment in 2021.

Data Science Intern, Royal Canin/Mars Inc.   06/20 - 08/20
- Filtered **300,000** consumer purchases by building machine learning models such as **XGBoost** to provide actionable insights, which resulted in company investment of **$30,000** into marketing activities.
- Developed **A/B tests** on four years of historical data to analyze impact of promotions on subscription service, successfully working with cross range of teams to generate **$100,000** investment for future promotions.
- Assisted veterinarians in diagnosis of urolith stones, analyzing **60,000** submissions to deploy web application using **Streamlit** from a **CatBoost model**; conducted cross-validation for an accuracy of **90% F1 Score**.

Data Analyst Intern, CardSwap Inc.   09/19 - 12/19
- 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.

EDUCATION

Bachelor of Science (BSc) - Statistics, University of Toronto   2018 - 2023
Bachelor of Business Administration (BBA) - Business Management, University of Toronto   2018 - 2023
- **Undergraduate Teaching Assistant**, Foundations of Business Management (MGTA05)

PROJECTS

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- Scraped pricing data with BeautifulSoup, combining data sources to predict house prices with an accuracy of <0.05 normalized RMSE, using various regression techniques such as Logistic Regression and Booster Trees on 80+ variables, to deploy a model with Streamlit.

Menda
- Developed mental health management application which utilized OpenCV and nltk, presenting the project at a hackathon (Hack Western 7) and being awarded Best Health Hack, placing 1st out of 180+ participants.