Oliver K. Pan

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SKILLS

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

WORK EXPERIENCE

Data Management Operations Intern, *Ontario Teachers' Pension Plan*   *09/20 - 12/20*
- Manages large databases and various data pipelines, using applications such as MS SQL Server for data querying.
- Automated Python scripts, saving ~2 hours of daily work and notify cross-functional teams by email notifications.
- Develops ETL process, accessing large databases writing SQL Queries and building data quality checks using Datanomics.

Data Science Intern, *Royal Canin/Mars Inc.*   *06/20 - 08/20*
- Filtered 300,000 consumer purchases by building machine learning models such as Random Forest and 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 quick diagnosis of urolith stones by analyzing 60,000 submissions, deploying web application using Streamlit from a CatBoost model, and conducting cross-validation for an accuracy of 90% F1 Score.
- Analyzed over three million transactions, clustering 1800 animal clinics using label propagation, which impacted business performance by identifying a potential 250% growth on e-commerce platform using data-driven results.

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.

Undergraduate Teaching Assistant, *University of Toronto*   *09/19 - 12/19*
- Corrected and assessed 60+ assignments and 70+ exams partnering with a team of eight teaching assistants to support a course (MGTA05 - Foundations of Business Management) with a class size of 300+ students.

EDUCATION

Bachelor of Science (BSc) - Statistics, University of Toronto   *2018 - 2023*
Bachelor of Business Administration (BBA) - Business Management, University of Toronto   *2018 - 2023*
- Minoring in Computer Science
- Quantitative Coursework: Linear Algebra, Calculus for Physical Sciences, Quantitative Methods, Computer Science (Python)

PROJECTS

Iowatch
- 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.

Yelp Open Dataset
- Performed analysis on COVID-19 data, creating an unsupervised machine learning model (K-means) to analyze over 200,000+ businesses and response to pandemic.