Oliver K. Pan

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SKILLS

Programming Languages : Python, SQL, HTML, CSS, JavaScript (NodeJS, ReactJS), Java, R
Data Science: pandas, numpy, seaborn, matplotlib, plotly, Jupyter Notebook
Machine Learning: scikit-learn, Keras, Tensorflow
Software Tools: Microsoft Excel, Tableau, Git, Github, AWS, Visual Studio

WORK EXPERIENCE

Data Management Operations Intern, *Ontario Teachers' Pension Plan*   *09/20 - 12/20*
- Controls data management process, using applications such as SQL, Bloomberg, Oracle EDQ, for data valuation
- Creates and manages scripts, accessing large databases utilizing Python, implementing reports using pandas

Data Scientist Intern, *Royal Canin Canada*   *06/20 - 08/20*
- Filtered 300,000 consumer purchases, building various machine learning models such as Random Forest and identifying key features using SHAP, to predict consumer sign-up to subscription service, which resulted in company investment of $30,000 into marketing activities
- Identified key promotions from historic data, carrying out A/B tests and inferential statistics to analyze effect of promotions on service subscription, resulting in $100,000 dedicated to promotional events and email campaigns
- Assisted veterinarians in quick diagnosis of Urolith stones by analyzing 60,000 submissions, deploying web application using Streamlit, creating CatBoost model and conducting cross-validation for accuracy of 90% F1 Score
- Successfully analyzed over 3 million transactions, identifying 1800+ key clinics using label propagation and gradient boosted trees, leading to a potential 250% growth on e-commerce platform

Data Analyst Intern, *CardSwap Inc.*   *09/20 - 12/20*
- Increased transaction speed by 25%, successfully identifying and analyzing the data of over 500+ customers, which resulted in business transactions of over $3000-$4000 daily

Undergraduate Teaching Assistant, *University of Toronto*   *09/20 - 12/20*
- 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

BBA Management & Information Technology Specialist (Co-op), *University of Toronto*   *2018-2023*
- Pursuing a Double Minor in Computer Science & Applied Statistics
- **Cumulative GPA :** 3.38/4.00
- **Quantitative Coursework:** Calculus, Linear Algebra, Quantitative Methods for Economics (Statistics), Computer Science

PROJECTS

House Price Prediction with Advanced Regression
- Predicted house prices given 80+ variables, using various regression techniques such as Logistic Regression and Booster Trees. Various metrics utilized for analysis such as MAE and RMSE. Model soon to be deployed with Flask and Heroku.

Yelp Open Dataset
- Performed analysis on COVID-19 data, creating unsupervised machine learning model (K-means) to analyze over 200,000+ businesses and response to pandemic. Extended various EDA techniques to clean and present data in a professional way

Fantasy Hockey League Statistics Predition
- Utilizing heat maps (Seaborn) and data visualization (Numpy/Matplotlib), the model would analyze trends in fantasy hockey, given category scores and player statistics. Further implemented scikit-learn, to predict scores.

AWARDS

DECA International Finalist - Competed in Atlanta against over 2000 students in a stock pitch, placing Top 10 globally
MESA Associate of the Year - Awarded for outstanding effort during the 18/19 Year, directing an event with 300+ guests