Kevin Dang

☎ (647) 909-9810 | ✉ dang.kevin@outlook.com | ⌨ dang-kevin | in dang-kevin

SKILLS

Languages   Python, R, SQL, SAS, Stata, HTML, CSS, MATLAB
Software/Tools   PowerBI, Tableau, Excel, Access, Github, ArcGIS, LaTeX

EXPERIENCE

Business Performance Analytics Intern
EXPORT DEVELOPMENT CANADA
Jun. 2020 - Present
Ottawa, ON

- Created **dashboards** in **PowerBI** and **Excel** to provide summaries of targets and results for upper management and clients
- Produced weekly reports and automated multiple steps by using macros, functions (vlookup, index & match) and running **SAS EG** projects & process flows

Data Analyst
UNIVERSITY OF TORONTO - CENTRE FOR INDUSTRIAL RELATIONS AND HUMAN RESOURCES
Sep. 2019 - Jun. 2020
Toronto, ON

- Spearheaded data analysis portion of research project about agriculture worker wages led by **Dr. Greg Distelhorst**
- Performed **data cleaning** and **data wrangling** on millions of rows of data using the **dplyr**, **tidyr** and **lubridate** libraries
- Visualized relationships between variables and time trends with **ggplot2** using technical details and explanations geared towards a non-technical client

Statistical Consultant
UNIVERSITY OF TORONTO - DEPARTMENT OF STATISTICAL SCIENCES
Sep. 2019 - Apr. 2020
Toronto, ON

- Wrote a report containing data analysis work in **RStudio** for a management consulting firm to answer business problems related to improving the health of users of their platform
- Completed a data analysis project to determine the effect of **auditory distraction on cognitive flexibility** for university students and made informed recommendations to improve study habits

Research Assistant
ROTMAN SCHOOL OF MANAGEMENT
May 2018 - Aug. 2019
Toronto, ON

- Worked with **Dr. Chris Liu** and a team of graduate students on projects about scientific publications and careers
- Queried scientific databases using **Python-based API-Wrappers**, worked with **Pandas dataframes** and exported data for a collaborative research project with **Dr. Waverly Ding** from the Robert H. Smith School of Business
- Manipulated and merged large datasets in **Stata**, extracted desired information, cleaned data and generated new variables

PROJECTS

The Impact of an Earnings Call on a Firm's Share Price

- Performed sentiment analysis using using **TF-IDF** to create a custom dictionary of sentiment scores based on the training data of quarterly earnings call transcripts and created data visualizations using **seaborn** and **matplotlib**
- Used sentiment scores and word count as model inputs, obtained mean squared errors of 0.000774 and 0.001384 using **k-nearest neighbours** and **XGBoost** algorithms respectively

Predicting Credit Card Approvals

- Cleaned Pandas dataframes by filling in missing values with **mean imputation** or most frequent observations, used **label encoding** to convert non-numeric data to numeric format and split data into train and test sets
- Scaled features, fit a **logistic regression classifier** using scikit-learn with **84% accuracy** and performed a **grid search** of the model parameters to improve the model's ability to predict credit card approvals

EDUCATION

University of Toronto
HONOURS BACHELOR OF SCIENCE
Sep. 2016 - Apr. 2020

- **Applied Statistics Specialist, Mathematics Minor**

- Courses: Computer Programming, Data Analysis, Design & Analysis of Experiments, Geographic Information & Mapping, Machine Learning, Statistical Computation, Statistical Consultation & Collaboration, Time Series Analysis