

Kevin Dang

DATA ANALYST & STATISTICAL CONSULTANT

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Skills

Languages Python, R, SQL, Stata, MATLAB, HTML, CSS
Software/Tools ArcGIS, LaTeX, MS Access, MS Excel

Experience

Data Analyst

UNIVERSITY OF TORONTO - CENTRE FOR INDUSTRIAL RELATIONS AND HUMAN RESOURCES

Sep. 2019 - Present

- Spearheaded a new data analysis project about agriculture and worker rights with **Dr. Greg Distelhorst** and a team of researchers
- 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 non-technical audiences

Statistical Consultant

UNIVERSITY OF TORONTO - DEPARTMENT OF STATISTICAL SCIENCES

Sep. 2019 - Present

- Currently working on a data analysis project for a management consulting firm to answer their business problems
- Completed a data analysis project to determine **the effect of auditory distraction on cognitive flexibility** for university students

Research Assistant

ROTMAN SCHOOL OF MANAGEMENT

May 2018 - Aug. 2019

- 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 into csv files
- Merged and manipulated large datasets with **Stata**, extracted desired information, cleaned data and generated new variables
- Used **BeautifulSoup** for web scraping and exported data into Excel to improve efficiency in creating new datasets

Projects

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

Degrees That Pay You Back

- Cleaned data and used **elbow**, **silhouette**, and **gap statistic** methods to determine the optimal number of clusters to be used in applying the **k-means algorithm** to the data
- Visualized the starting and median salaries with **ggplot2**, plotted each cluster to look for patterns in career growth for certain majors

Super Bowl, T.V. & Halftime Shows

- Investigated tables in **PostgreSQL** containing Super Bowl, television, and halftime show data by writing queries containing various **filter and join clauses**
- Explored questions involving game outcomes, T.V. viewership, ad costs and musician performances

Radius of the Earth

- Collected gravitational strength data with a gravimeter, manipulated data and fit **linear regression** models using **NumPy & SciPy**
- Plotted models with **Matplotlib**, performed chi-squared analysis and estimated the Earth's Radius to within **30 kilometres**

Education

University of Toronto

HONOURS BACHELOR OF SCIENCE

Sep. 2016 - Apr. 2020 (expected)

- **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