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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 sability 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