Kevin Dang

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m EDUCATION

UNIVERSITY OF TORONTO

Honours Bachelor of Science Applied Statistics Specialist Mathematics Minor

2016 - Present

COURSES

- Computer Programming
- · Design & Analysis of Experiments
- · Linear Algebra
- Machine Learning
- Methods of Data Analysis
- Multivariate Calculus
- Partial Differential Equations
- · Statistical Practice
- Statistical Theory

MOOCs

- · MIT: Computer Science using Python
- Stanford: Machine Learning
- · UofT: Learn to Program

♣ SKILLS

PROGRAMMING

- Python R SQL Stata
- Matlab HTML CSS

OTHER

- · LaTeX · MS Access
- MS Excel MS Office

🝸 AWARDS

UofT Entrance Scholarship

• 92%+ average

AP National Scholar

· 98th Percentile

Mathematics Award

· Highest overall average across all senior math courses



★ INTERESTS

Volunteering

- Eco-Team Executive
- Student Council Representative
- Statistics Study Group Leader
- Tennis Canada (Fundraising)

Hobbies

- · Board games · Fishing · Investing
- · Piano · Soccer · Table Tennis

🖶 EXPERIENCE

ROTMAN SCHOOL OF MANAGEMENT | Research Assistant

May 2018 - Present | Toronto, ON

- o Worked under the supervision of Dr. Christopher Liu with a team of graduate students on projects about scientific publications and careers
- o Queried scientific databases using Python-based API-Wrappers, worked with dataframes using Pandas 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

MOSAIC SALES SOLUTIONS Brand Ambassador

Oct 2015 - Sep 2017 | Toronto, ON

- o Promoted different types of brands for numerous companies and consistently increased product sales by more than the daily target of 25%
- Wrote reports containing information regarding customer interaction, sales made, products purchased, demo issues and conflict resolution

PROJECTS

PREDICTING CREDIT CARD APPROVALS | Python

- o Cleaned data 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

RADIUS OF THE EARTH | Python

- o Collected data on gravitational strength using a gravimeter, manipulated data with NumPy and fit linear regression models to the data using SciPy
- Plotted models using matplotlib.pyplot, performed chi-squared analysis on the models to check for goodness of fit and estimated the Earth's Radius to within 30 kilometres

DEGREES THAT PAY YOU BACK | R (Jupyter Notebook)

- Cleaned data with dplyr functions 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 gaplot2, plotted each cluster individually to look for patterns in career growth for certain majors

DUNGENESS CRAB GROWTH | R Markdown

- o Summarized the data in a table and plotted a boxplot, then used a t-test to compare the mean shell sizes of the two groups of crabs
- o Plotted a normal quantile plot and histogram using ggplot2 to check the normality condition and performed an F-test to compare two variances to check the constant variance assumption

SUPER BOWL, T.V. & HALFTIME SHOWS | PostgreSQL (Jupyter)

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