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 \$\psi_{\text{s}}^{\text{c}}\$

PROGRAMMING

- Python R SQL Stata
- Matlab · HTML · CSS

OTHER

- · LaTeX · MS Access
- MS Excel MS Office

T 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 involving scientific publications and laboratories
- 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 NORTH AMERICA 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

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 and performed chi-squared analysis on the models to check for goodness of fit, and estimated the radius of the Earth to within 30 kilometres

NODAL INVOLVEMENT IN PROSTATE CANCER | R Markdown

- Fit binary logistic regression models and analyzed deviance to assess which predictors are significant in predicting nodal involvement
- Visualized the success rates of predictors with ggplot, and used corrplot to show potential relationships between predictors

JOB APPLICATIONS | SQL

- Stored job application data in a SQLite database for efficient data retrieval
- o Wrote queries to extract specific information displayed in a table

HANDWRITTEN DIGIT RECOGNITION | Matlab

- Implemented one-vs-all regularized logistic regression and neural networks to recognize hand-written digits
- o Vectorized cost function and gradient for logistic regression and implemented feedforward propagation to use trained weights for prediction

CROSS VALIDATION Python

- o Implemented functions for cross validation using linear algebra operations from **numpy**
- o Performed cross validation and plotted test error, training error, and k-fold cross-validation error with matplotlib.pyplot to tune the penalty parameter in Ridge regression

DUNGENESS CRAB GROWTH | R Markdown

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