

SPENCER TOLLEFSON

DATA SCIENTIST

✉ spencer@spencertollefson.com

🌐 spencertollefson.com

☎ 253-861-1873

📍 Seattle, WA 98112

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🔗 spencertollefson

Skills

PROGRAMMING

Python

SQL

HTML/CSS

Bash

LIBRARIES & FRAMEWORKS

Pandas

NumPy

Scikit-Learn

Matplotlib

Django

Flask

NLTK

Requests

Beautiful Soup

Selenium

MACHINE LEARNING

Linear Regression

L1 and L2 Regularization

Logistic Regression

K-Nearest Neighbors

Support Vector Machines

Random Forest

Decision Trees

Gradient Boosting

Naive Bayes

Principal Component Analysis

K-Means Clustering

Natural Language Processing (NLP)

TOOLS

Git / GitHub

Jupyter

Excel

Tableau

AWS EC2

PostgreSQL

SPOKEN LANGUAGES

Conversational Spanish

Data Science Projects

Upset at the TSA? How to File a Successful Claim

December 2018

- Created classifier model to predict the probability a passenger claim filed against TSA will be approved or denied
- Coded web app using Flask and JQuery to share model via a friendly GUI to the public and serve up model via API to other potential developers
- Aids users by quickly providing likely outcome of filing a claim before undertaking effort to collect documentation and fill out paperwork

What Reddit Thinks About LeBron James

November 2018

- Performed Natural Language Processing (NLP) techniques on comments obtained from reddit.com/r/nba in order to better understand NBA fans' discussions regarding LeBron James
- Latent Dirichlet Allocation (LDA), Non-negative Matrix Factorization (NMF), and Sentiment Polarity Analysis revealed commenting trends over a 6 year period

Online Dating: Who Wants Children?

October 2018

- Trained KNN, Random Forest, Decision Tree, Gradient boost, SVM, and Logistic Regression models to predict which OkCupid.com users desire to raise children based on attributes contained in their OkCupid.com profile
- Evaluated models with ROC AUC and also considered confusion matrices, recall, precision, accuracy, and F-1 score

The Makings of a Great Hiking Trail

September 2018

- Built and implemented multivariate linear regression model to predict a hiking trail's rating by users on wta.org
- Incorporated various L1, L2, and other regularization techniques to improve regression model's performance
- Scraped data from Washington Trail's Association website for all 3,555 hikes using Python's requests and BeautifulSoup libraries

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February 2018

- Coded personal website to serve as a personal blog, portfolio, and driver of better personal SEO presence
- Wrote back-end with Python Django framework, implemented Bootstrap CDN to deliver front-end content, created a PostgreSQL database for blog and journal portions, and deployed via Heroku

Experience

Metis

Seattle, WA

Data Science Student

September 2018 to December 2018

- 12 week, full time, immersive data science bootcamp with dedicated support from in-person instructors
- Covered topics within Statistics, Python, Data Acquisition and Cleaning, Machine Learning, and Communication
- Completed multiple projects with focus in inception, design, iterative analysis, completion and presentation

Peace Corps

Costa Rica

Rural Community Economic Development Adviser

February 2017 to June 2018

- Created and instructed course based on student input that increased entrepreneurial skills of 8 local women
- Reported to supervisors and collaborated with peers to implement numerous community projects from remote location

PwC

Seattle, WA

Management Consultant

October 2014 to January 2017

- Managed internal and external stakeholder communications to enhance participant understanding and project vision for a cross-platform, enterprise system upgrade project at a F500 company
- Developed personal relationships with over fifty project stakeholders which led to better anticipation of the affects the project would make upon its stakeholders

Tax Accountant

- Interacted with clients via email, telephone, and meetings in order to understand issues and concerns, ask questions, and convey tax rules in layman's terms
- Cleaned messy data from clients' accounting systems with VBA scripts to save team hundreds of hours of time

Tax Intern

Seattle, WA

January 2013 to April 2013

- Cleaned client information output by different data sources in order to be used in tax return preparation
- Completed during senior year of undergraduate studies

Education

University of Washington - Foster School of Business

September 2013 to June 2014

Master of Professional Accounting, Taxation

University of Washington - Foster School of Business

August 2009 to August 2013

Bachelor of Arts in Business Administration, Accounting | Minor: Economics