

SPENCER TOLLEFSON

DATA SCIENTIST



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Skills

PROGRAMMING

Python

SQL

HTML/CSS

Bash

TOOLS

Tableau

Excel

Git / GitHub

Jupyter

AWS EC2

PostgreSQL

LIBRARIES & FRAMEWORKS

Pandas

NumPy

Scikit-Learn

Matplotlib

NLTK

Django

Flask

Requests

Beautiful Soup

Selenium

MACHINE LEARNING

Linear Regression

L1 and L2 Regularization

Logistic Regression

Natural Language
Processing (NLP)

K-Nearest Neighbors

Support Vector Machines

Random Forest

Decision Trees

Gradient Boosting

Principal Component
Analysis

K-Means Clustering

Naive Bayes

Data Science Projects

(All Project Code and Summaries Available on Github)

Upset at the TSA? How to File a Successful Claim

December 2018

- Creates and deploys a classifier model predicting the probability a claim filed against TSA will be approved
- Uses Flask and JQuery to code the web app to serve the model via a GUI and be available as an API
- Provides value by easily giving users an estimate of their probability of filing a successful claim before they decide to undertake the arduous task

What Reddit Thinks About LeBron James

November 2018

- Performs NLP techniques on comments obtained from reddit.com/r/nba regarding LeBron James
- Uses Latent Dirichlet Allocation, Non-negative Matrix Factorization, and a sentiment polarity analysis
- Provides value by revealing commenting trends over a 6 year period that correlate with historical events

Online Dating: Who Wants Children?

October 2018

- Trains a classifier model to predict whether OkCupid.com users desire future children
- Uses Scikit-Learn and Pandas to test Logistic Regression, KNN, Random Forest, Decision Tree, SVM, and Gradient Boosting models
- Evaluates the models using the ROC AUC metric after considering confusion matrices, recall, precision, accuracy, and F-1 score
- Provides value by allowing users to predict if a potential partner has similar desires for having children

The Makings of a Great Hiking Trail

September 2018

- Constructs and implements a multivariate linear regression model to predict a wta.org hiking trail's user rating (1 to 5 stars)
- Uses various L1, L2, and other regularization techniques and uses Python's requests and Beautiful Soup libraries to scrape all 3,555 hikes from wta.org
- Provides value by allowing hiking trail planners predict how well-liked a hike might be before they create the trail

Experience

Metis

Data Science Student

Seattle, WA

September 2018 to December 2018

- 420 hour / 12 week immersive data science bootcamp with full time instructors
- Covered topics within Python, statistics, data acquisition and cleaning, machine learning, and communicating findings
- Completed 4 solo projects applying industry-standard tools with focus in inception, design, iterative analysis, completion, and presentation

Peace Corps

Community Economic Development Adviser

Costa Rica

February 2017 to June 2018

- Created and instructed course that increased entrepreneurial skills of 8 local women
- Reported to supervisors and collaborated with peers to implement numerous community projects

PwC

Management Consultant

Seattle, WA

October 2014 to January 2017

- Managed internal and client stakeholder communications enhancing 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 fostering better trust

Tax Accountant

- Saw client projects through entire life cycle from initiation through delivery and follow up
- Researched and applied tax authority (laws, court cases, IRS regulations, etc) to support tax positions
- Cleaned messy data from clients' accounting systems with VBA scripts to save team hundreds of hours of time

Education

University of Washington - Foster School of Business

Master of Professional Accounting, Taxation

September 2013 to June 2014

University of Washington - Foster School of Business

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

August 2009 to August 2013