William Peterson   Data Scientist

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Skills

Python | R | SQL | AWS | Git/hub | Machine Learning | Data Visualization
InDesign | ArcGIS | Minitab | LaTeX | Public Speaking

Data Science Intensive

General Assembly: Full-Time Bootcamp.   2018

- Python-based data aggregation, cleaning, modeling, classification and visualization.
- Daily and weekly labs reinforced concepts and skills of data analysis and its practice.
- Completed five projects shepherding raw data through all stages of manipulation from cleaning, to analysis, to presentation of findings.
- Modeled almost 80% of Reddit posting's success simply from title structure by using Natural Language Processing in Random Forest and Gradient Boosted models.
- Led group of four in submission to Kaggle's West Nile competition. Created and maintained GitHub Enterprise Repository; managed group meetings; guided group and individual work-flow. Final model, incorporated GIS and weather data into a Bagged Classification model.
- Capstone project investigates the relationship between the date of description of bird taxa and their current placement in the genetic hierarchy. Interactive visualizations created with Bokeh and Juypter Widgets.
- Pandas, Scikit-Learn, Numpy, TensorFlow / Keras, Spark, Matplotlib, Seaborn, SQL

Experience

Rowing Coach   2013-2014, 2016-2017
Tufts University, Boston College High School, Middlebury College

Substitute Teacher / Technical Theater Director   2016-2017
Boston College High School

Writer   2014-2016
Editor and contributor: *Beyond the Face.* May 2015 release.
Produced spec manuscript and feature-length essays

Education

Pennsylvania State University   2017 Applied Statistics
Probability Theory, Applied Statistics, Statistics with R

Middlebury College   2009-2013
B.A. High Honors   Department of Religion
Linear Algebra, Topology, Statistical Programming

Short Courses
Statistical Learning and Data Mining III – T. Hastie and R. Tibshirani   2011
Presenting Data and Information – Edward Tufte   2010
Programming with Mathematica – Wolfram   2008

Interests

Climbing
Ascents of El Capitan; Mt. Rainier. Manager: 2012 *The North Face* Expedition to Baffin Island.

Flying
Instrument Rating; 250 hours as Pilot in Command