Kelly Stroh

Data Scientist ◇ Puzzle Solver ◇ Strategic Thinker ◇ Economist ◇ Dedicated Learner

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Technical Skills

Machine Learning: Regression & Classification models, Gradient boosting, Dimensionality reduction, Clustering, Natural Language Processing, Neural networks, Hyperparameter tuning
Statistical Analysis: Hypothesis testing, Probability theory, Econometrics, Bayesian statistics
Languages: Python, SQL
Tools: AWS, Docker, PostgresSQL, Git, Jupyter, Spark
Visualization: Matplotlib, Seaborn, Tableau
Libraries: NumPy , Pandas, Scikit-Learn, Scikit-Image, Keras, Flask

Experience

Galvanize Inc   **May - Aug 2019**
Data Science Fellow

- Experience using supervised and unsupervised learning tools to address specific business needs
- Assessing and applying data cleaning and processing techniques
- Use of convolutional neural networks to categorize inventory images into product groups; application of hierarchical clustering and dimension reduction to group images of similar items
  github.com/kellystroh/Inventory-Image-Classification
- Examined correlation of campaign spending and election results in instances of rematches between same candidates in U.S. House elections
  github.com/kellystroh/Congressional_Campaign_Spending
- Comparison of random forest, logistic regression, and gradient boosting model performance for detecting fraud using data from online ticket vendor
  github.com/kellystroh/Fraud_Detection_Classifier

Kitsap Conservation District   **Oct 2013 - Oct 2017**
Project manager for stormwater & low impact development program

- Managed details at every project stage: client recruitment, initial research, feasibility evaluation, client communication, planning, implementation
- Used SQL database to track, analyze, and report program metrics

Stewardship Partners
Outreach & education intern; program assistant   **Jun - Dec 2013**

- Assisted with development of crowdsourced online database of stormwater catchment projects around Puget Sound

Education

Galvanize Inc   **May - Aug 2019**
Certificate in Data Science

University of Edinburgh   **Sep. 2008 - Jun 2012**
Master of Arts (*Honours*) Economics with Environmental Studies

Continuing Education:

- Spanish Language—Nueva Lengua; Bogota, Colombia   Apr 2018
- Spanish Language—Tandem Santiago; Santiago, Chile   Feb 2018
- Community Based Social Marketing for Sustainable Behavior—Dr. McKenzie-Mohr   Jan 2016
- Social Marketing Symposium—International Social Marketing Association   Dec 2013
- Computing for Data Analysis—Coursera.org; John Hopkins, School of Public Health   Jan 2013
- Field Research Techniques—Boston U. School for Field Studies; Atenas, Costa Rica Jul-Aug 2011