KELLY STROH

DATA SCIENTIST

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DATA SCIENCE WORK

TAKING STOCK

github.com/kellystroh/Inventory-Image-Classification

- Used convolutional neural networks to categorize inventory images into product groups, creating framework for a tool to streamline online inventory
- Grouped images of similar items with hierarchical clustering
- Applied dimension reduction to visualize the variety of products within categories and sub-categories.

OUTFOX A FRAUD

github.com/kellystroh/Fraud_Detection_Classifier

- Built a model for identifying fraudulent events posted to an online ticket vendor
- Engineered features to extract quantitative data from text
- Compared model performance across random forest, logistic regression, and gradient boosting models
- Hyperparameter tuning for optimization

ELECTIONS FOR SALE?

github.com/kellystroh/Congressional_Campaign_Spending

- Cleaned, processed, and combined data from multiple sources
- Examined correlation of campaign spending and election results using regression analysis
- Minimize external sources of variation by focusing specifically on instances of rematches between the same two candidates for U.S. House seats

EXPERIENCE

Seattle Women in Data Science, Seattle, WA　　**Nov. 2019 - Present**
Social Media Coordinator

- Manage schedule & facilitate communication for social media team
- Contribute creative content on data science topics

Kitsap Conservation District, Poulsbo, WA　　**Oct. 2013 - Oct. 2017**
Project Manager

- Researched and evaluated feasibility for potential projects
- Foster positive client relationships and act as liaison for local government
- Oversee project budgets and supervise project implementation
- Tracked program metrics using SQL database

Stewardship Partners, Seattle, WA　　**Jun. 2013 - Dec. 2013**
Program assistant

- Assisted with development of crowdsourced online database of stormwater catchment projects; coordinate outreach and educational events
- Communicate conservation concepts to diverse audiences

TECHNICAL SKILLS

Machine Learning
Regression & Classification
Gradient boosting
Dimensionality reduction
Natural Language Processing
Neural networks
Hyperparameter tuning

Statistics
Hypothesis testing
Probability theory
Econometrics
Bayesian statistics

Languages
Python, SQL

Tools
AWS, Docker, PostgresSQL
Git, Jupyter, Spark

Visualization
Matplotlib, Seaborn, Tableau, Plotly

Libraries
NumPy, Pandas, Scikit-Learn,
Scikit-Image, Keras, Flask, Dash

EDUCATION

Certificate in Data Science
Galvanize, 2019

Master of Arts (Honors)
Economics with Environmental Studies
University of Edinburgh, 2012

CONTINUING EDUCATION

Spanish Language
Nueva Lengua, Colombia 2018
Tandem Santiago, Chile 2018

Field Research Techniques
School for Field Studies (Boston U.),
Costa Rica 2011