Dominik Huffield

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Summary

Resourceful data scientist with expertise in statistical model development and scalable data storage. Specifically, skilled in scrutinizing large data sets through a combination of architecture and machine learning to yield signal within the noise.

Education

Boise State University – Boise, ID

- Bachelor's in Business & Economic Analytics

Experience

Languages

- Python
  - NumPy
  - Tensorflow
  - Scikit-learn
  - Pandas
  - MatPlotLib
  - Paramiko
- Java
- C

Algorithms

- Ordinary Least Squares
- Logistic Regression
- Decision Tree
- Graph & Tree Searches
- Sorting
- Greedy
- Dynamic Programming

Data Visualization

- PowerBi
- Matplotlib
- Choropleth

Databases

- SQL, mySQL
- MongoDB
- Redis

Statistical Tools

- Stata
- Mast-ML
- Citrination

Course Work

- Econometrics
- Probability
- Data Science

Financial Spending Model – Idaho Policy Institute (IPI)

- Utilize IPI's data describing government finances & city crime rates for 200+ cities spanning a 20-year period
- Augment their dataset by importing relevant statistics from Bureau of Labor Statistics, Census Bureau, etc.
- Plotted various visualizations such as distributions & heatmaps describing the dataset
- Performed a chi squared test to identify independent features
- Removed multicollinearity among independents
- Development of a Time Fixed Effects, Bayesian Ridge & Random Forest regression models
- Optimized various hyperparameters
- Successfully identified relationships between government spending and crime rates among cities in Idaho allowing government officials to make more informed decisions.

Machine Learning Researcher - Informatics Skunkworks

- Collaborate with PhD students to accelerate research towards the mass production of bulk metallic glasses.
- Bolster workflow through data preprocessing and visualization
- Train models to identify alloys with high glass forming abilities
- Create Machine Learning models utilizing config files for Mast-ML

Music Classifier – An Independent Venture

- A tool allowing music professionals to better understand & interact with large music collections
- Utilize NLP & DSP to create an ensemble of unsupervised learning models to cluster songs into collection unique genres
- Improve preexisting song recommendation systems by removing noise from the input data, resulting in a less biased system