

Dominik Huffield

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SUMMARY

A resourceful individual possessing 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 engulfing noise.

SKILLS

Highlight Skill: Collaborative Problem Solving

Programming Skills: Python, Java, C

Machine Learning: PCA, Cross-Validation, Time-Series-Analysis, Gradient-Descent

ML Tools: Numpy, Pandas, Scikit-Learn, matplotlib, Tensorflow

Data Visualization: PowerBi, Matplotlib, Tableau

Data Skills: Wrangling, Storytelling, Analytics, Visualization, Feature-Engineering, Stats-Modeling

Data Storage: SQL, noSQL, PySpark, Hadoop, MongoDB, Redis

PROJECTS

Financial Spending Model

- Model of government finances and local crime statistics relationship
- Drove the development of a strategy to effectively reduce crime
- Wrangled data from BLS, Census, FBI and GFD to augment existing database.
- Delivered pipelines to output insightful visualizations and to train a Time Fixed Effects Regressor.

Bioinformatics

- A gene bank storage system for long-term storage any provided sequence of nucleotides.
- Presented solution for memory constraints utilizing our proprietary B-tree storage system.
- Designed system to allow searching of sequences at $O(\log n)$ runtime.
- B-tree data structure housing node data by encoding onto 8-byte disk blocks.

EXPERIENCE

Research Data Scientist | *Boise State University* | Boise, ID Jan 2019 – Dec 2019

- Collaborate with fellow researchers to research methods for mass producing bulk metallic glasses.
- Constructed visualizations and provided the team with tangible experiment results.
- Performed data cleansing and preprocessing to optimize the quality of models input data.
- Created machine learning models to identify alloys with high glass forming abilities.

Data Analyst / *Tis The Season LLC* | Boise, ID Feb 2019 – May 2019

- A proprietary software to employ students with part-time jobs locally.
- Effectively managed client's requests by deploying a workforce of ~30 students.
- Managed the site's backend & SQL database housing client/employee data.
- Presented visualizations of market research and forecasted finances for fundraising.

EDUCATION

Data Science Career Track | *Springboard* | Aug 2020 – Dec 2020

B.S. in Economic Analytics W/ Computer Science | *Boise State University* | Aug 2015 – May 2020