

Alan J Averett

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EDUCATION

Brigham Young University- Idaho

B.Sc. Data Science, Statistics; *Major GPA: 3.9*

Certifications: Web and Computer Programming; Machine Learning

Rexburg, ID

Apr 2020 - Apr 2024

EXPERIENCE

WPA Intelligence

Machine Learning Intern

Washington D.C.

Jul 2022 - Nov 2022

- Created digestible reports for 80+ political campaigns by analyzing/visualizing voter data trends with machine learning models that predicted ideological disposition and turnout
- Significantly decreased polling production time by automating sampling methodologies
- Increased accuracy and AUC for all future machine learning models by using GIS data to categorize over 100M records of voter data into 12 granularities of population density

Mathematics Department BYU-Idaho

Head Lab Coordinator

Rexburg, ID

May 2023 - Jan 2023

- Managed, scheduled, and trained tutors to work in the university data science lab for R and Python
- Tutored students seeking help in programming and mathematics for all intermediate level data science courses using various data science and machine learning libraries within Python including Pandas, Numpy, Sklearn, and TensorFlow

Teacher's Assistant

Apr 2022 - Present

- **DS250:** Taught and tutored DS Programming, viz, and basic ML in Python (Pandas, NumPy, Sci-kit Learn)
- **DS350:** Taught and tutored Data Wrangling and viz with R tidyverse (dplyr, ggplot2 etc.)
- **DS460:** Taught and tutored Big Data Programming with Python in DataBricks (Polars, PySpark, Plotly, AutoML, etc.)
- **MATH221:** Taught and tutored Business Statistics and other statistical theories and methods with Excel
- **MATH341:** Taught and tutored Linear Algebra with Python (NumPy, SymPy)

Data Science Society President

Mar 2023 - Sep 2023

- Oversaw and helped coordinate all projects undertaken by the society with the faculty sponsor.
- Lead and coordinated DSS activities and meetings; mentored and supported project teams including weekly bootcamps to teach data analysis, statistics, and machine learning

PROJECTS

Wilford Woodruff Papers

Data Scientist

Rexburg, ID

May 2023 - Present

- Provided actionable graphs and trends using NLP tools like sentiment analysis and unsupervised textual clustering along side time-series analysis as part of the Wilford Woodruff production team
- Delivered an interactive web application that cross-referenced religious texts with early Mormon journal entries by using a Bag-of-Words to vectorize n-grams to find textual matches sorted by confidence

FamilySearch

Statistician

Rexburg, ID

Sep 2023 - Present

- Identified fraudulent genealogical submissions in the African Oral History Project for FamilySearch using in-house tuned statistical models, anomaly detection methods, and machine learning algorithms.

SKILLS

- **Python:** Pandas, NumPy, Sci-kit Learn, PySpark, Polars, Keras / Tensorflow, BeautifulSoup4
- **R:** CAR, Mosaic, RMarkdown, Tidyverse (dplyr, tidyr, stringr, forcats, lubridate, purrr, etc.)
- **Visualization libraries:** Streamlit, ggplot2, Matplotlib / Seaborn, Plotly Express, Altair
- **Other Skills:** Microsoft Excel, SQL, Git/GitHub, Quarto, LaTeX, Regex