Alan J Averett

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EDUCATION

Brigham Young University-Idaho

Rexburg, ID

B.Sc. Data Science, Statistics; Major GPA: 3.8/4.0

Apr 2020 - Dec 2023

- Certifications: Web and Computer Programming (3.7/4.0); Machine Learning (4.0/4.0)
- Leadership: Chi Delta Society, Society of Hispanic Professional Engineers (SHPE), Data Science and AI Society

EXPERIENCE

WPA Intelligence

Washington D.C.

Machine Learning Intern

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 using *R's tidyverse*
- Significantly decreased polling production time by automating sampling methodologies using R's statistical libraries
- Increased accuracy and AUC for all future machine learning models by using GIS data to categorize over 100 million records of voter data into 12 granularities of population density using **R**'s sf and other geospatial libraries

FamilySearch

Statistician

Salt Lake City, UT Sep 2023 - Present

• Eliminated 50+ fraudulent contractors in the African History Project by developing and automating in-house tuned anomaly detection methods in *Python* over 200k+ genealogical submissions; regularly presented abstracts to management

Mathematics Department BYU-Idaho

Rexburg, ID

Data Science Society President, Chief Lab Manager

Mar 2023 - Sep 2023

- · Led and coordinated data science society activities and meetings; mentored and supported project teams including weekly bootcamps to teach data analysis/statistics and ML hyper parameter tuning, over 6 teams of ~ 6-12 people each
- Managed, scheduled, and trained all tutors for all data science courses, school-wide for Data Science Lab (R and Python)

Teacher's Assistant

May 2022 - Present

- DS Programming: Tutored data analysis, statistics, and basic ML in Python (Pandas, NumPy, Sci-kit Learn)
- Data Wrangling and viz: Tutored complex data analysis and visualization with *R tidyverse* (dplyr, ggplot2 etc.)
- Big Data Programming: Tutored big data analysis and viz. in DataBricks (PySpark, AutoML, Polars, Plotly, etc.)
- Linear Algebra: Tutored both non-computational and computational linear algebra with Python's NumPy and SymPy

CONSULTING

Baltimore Mission (Spanish Outreach)

Technology Consultant and Regional Manager

Baltimore, MD

Mar 2019 - Feb 2020

Rexburg, ID

Wilford Woodruff Papers Data Scientist

May 2023 - Dec 2023

- Provided actionable graphs and trends using time-series analysis and NLP (sentiment analysis and textual clustering)
- Delivered *interactive web app in Streamlit* that matched various corpus data together using text vectors (*NLTK*, *sklearn*)

Ohio Voter Data Consulting

Rexburg, ID

Founder, Data Scientist

Sep 2023 - Present

- Democraztized big data models for grassroots campaigns, cloud computing ML models for ~10 million rows in Python's sklearn for predictive analysis in voter behavior, visualizing data interactively with R Shiny, Plotly, Quarto
- · Awarded First Place in nationally recognized I-Hack hackathon for innovation by optimizing campaign outreach

SKILLS

- Python: Pandas, NumPy, Sci-kit Learn, PySpark, Polars, Keras / Tensorflow, BeautifulSoup4, DataBricks
- R: CAR, Mosaic, RMarkdown, Tidyverse (dplyr, tidyr, stringr, forcats, lubridate, purrr, etc.)
- Visualization libraries: Streamlit, ggplot2, Matplotlib / Seaborn, Plotly Express, Altair
- Other Technical Skills: Microsoft Excel, SQL, Git/GitHub, Quarto, LaTeX, Regex, Docker
- Math Courses: Calculus, Applied Calculus for Data Analysis, Linear Algebra, Intermediate Statistics, Applied Regression