Ty Hawkes

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Education

Bachelor of Science in Statistics: Data Science **April 2024**
Brigham Young University *Provo, UT*

- GPA: 4.0
- Relevant Courses: Predictive Analytics, Data Science Process, Introduction to Computer Science, Applied R Programming, Data Science Ecosystems, Statistical Modeling I & II, Probability and Inference I & II, Machine Learning (Winter 2024), Data Structures (Winter 2024)
- Member of the BYU Statistics Club
- Full Academic Scholarship Recipient (2022-2024)
- Consistent Recognition on the Dean's List

Skills

- Proficient in R, Python, SQL, and Tableau
- Intermediate with Excel
- Trained in data wrangling, exploratory data analysis, dashboard design, regression, and other statistical modeling techniques
- Fluent in Spanish

Experience

Data Scientist/Data Analyst **February 2023–Present**
Research & Reporting - Brigham Young University *Provo, UT*

- Leveraged advanced SQL to generate data sets for developing Tableau dashboards, performing statistical analysis, and optimizing queries for rapid execution on multi-million-row datasets.
- Employed R for thorough statistical analysis and regression techniques, collaborating with Data Scientists to double the accuracy of a previously designed course enrollment prediction for the last 2 months of registration.
- Developed a series of interactive Tableau dashboards, helping minimize labor efforts for several different tasks. Collaborated closely with 6 university schedulers to gather insights, resulting in a comprehensive dashboard that improved scheduling efficiency.

Projects/Awards

Rwanda Carbon Emissions Predictive Modeling **July 2023**

- Designed an XGBoost model to forecast a year's worth of carbon emissions across 100+ locations in Rwanda.
- Engineered autoregressive features, a key innovation, resulting in a substantial reduction of mean absolute error to approximately 4 moles per cubic meter.
- Employed Python and Pandas for data manipulation and intricate feature engineering to improve model accuracy and reliability.

2023 Statistics Department Data Contest Runner-up **February 2023**

- Developed predictive models for both hardware and software sales in Japan and the US using regression and other statistical methods.
- Conducted web scraping and utilized R for thorough data cleaning, obtaining essential video game sales data to support project objectives.
- Delivered a comprehensive presentation of our model and findings to a simulated group of stakeholders. Effectively communicated our methodology to a non-technical audience, ensuring understanding, and shared insights into the constraints of predictive analytics.