

Ty Hawkes

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EDUCATION

Brigham Young University	Apr 2024
Bachelor of Science, Statistics, Emphasis in Data Science	Provo, UT
<ul style="list-style-type: none">▪ GPA 4.00▪ Consistent Recognition on the Dean's List▪ Full Academic Scholarship (2022-2024)	

EXPERIENCE

Brigham Young University	Feb 2023 – Present
<i>Research & Reporting – Data Scientist/Data Analyst</i>	Provo, UT
<ul style="list-style-type: none">▪ 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 address intricate inquiries and forecast course enrollment prior to each semester. This effort significantly boosted prediction accuracy, achieving over a twofold improvement during the final 50 days 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.	
Brigham Young University	Jan 2023
<i>Data Contest Runner-Up</i>	Provo, UT
<ul style="list-style-type: none">▪ 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.	
The Church of Jesus Christ of Latter-Day Saints	Aug 2019 – Jul 2021
<i>Voluntary Representative</i>	Provo, UT
<ul style="list-style-type: none">▪ Enhanced weekly social media leads from 2 to 30 in 5 months through data-driven analysis and optimized advertising tactics. Presented findings to mission leadership, gaining approvals for transformative changes to traditional approaches, enhancing overall conversion efficiency.	

PERSONAL PROJECTS

Rwanda Carbon Emissions Predictive Modeling	Jan 2023
<ul style="list-style-type: none">▪ 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 square meter.▪ Employed Python and Pandas for data manipulation and intricate feature engineering to improve model accuracy and reliability.	

TECHNICAL SKILLS

- SQL
- R (tidyverse, ggplot2)
- Tableau
- Python (pandas, numpy, sklearn)
- Git
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SOFT SKILLS

- Team Collaboration
- Problem Solving
- Time Management
- Communication