

Hayden Dansbury

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Summary

Data Scientist with 3 years of experience in data analytics and statistical modeling, specializing in advanced predictive models, and journal-publishable statistical analysis. Contributed to research downloaded over 500 times, supporting government, commercial, and educational applications.

Experience

Research Data Scientist

May 2022 – Present

- Utilized *SAS* and *Python* to perform advanced statistical analyses on complex healthcare datasets, uncovering actionable insights that led to measurable improvements in healthcare outcomes.
- Applied *SQL* to extract and transform large-scale electronic health record data from *Teradata* and *Google BigQuery*, enabling efficient data processing and analysis.
- Designed and implemented robust research methodologies, enhancing data-driven decision-making and fostering innovation within the healthcare industry.

Data Analytics Intern

May 2020 – Aug 2020

- Designed and developed custom, enterprise-level *PowerBI* data visualizations, providing executive leadership with actionable business insights and enabling strategic decision-making.
- Developed a seasonally adjusted ARIMA model in *Python* to forecast revenue trends for upcoming financial quarters.
- Extracted and transformed large datasets from the data warehouse using *SQL*, supplying data for key analytics projects.

Education

Lipscomb Univeristy

Aug 2018 – May 2022

Bachelor's of Science: Double Major in (Data Science [🔗](#)) and (Psychology [🔗](#))

- GPA: 3.75/4.0

Projects

Seasonally Adjusted ARIMA Model for Revenue Forecasting

- Developed a seasonally adjusted ARIMA model to predict the next years revenue for an accounting firm. Visualized predicted revenue that partners used to plan for the next tax season.
- Tools Used: Python, SQL, Jupyter. *Libraries:* Pandas, Numpy, Matplotlib, Statsmodels

Artificial Intelligence for Tic-Tac-Toe

[Github \[🔗\]\(#\)](#)

- Developed and implemented AI models for Tic-Tac-Toe using Minimax algorithm, Q-Learning, and Deep Q-Networks to create an intelligent decision-making system, using Python and TensorFlow.

Skills

Languages: Python, SAS, SQL, R, HTML & CSS - *Prior Experience:* C++, Java, JavaScript

Technologies: Jupyter Notebook, Google GCP & BigQuery, Teradata SQL, MySQL, PowerBI, Tableau, Git, Linux

Skills: Machine Learning, Statistical Testing, Data Analysis & Visualization, Database Management, Research Methods

Selected Publications

- Comparing the Re-Hospitalization Rates and Cardiac Mortality in CHF Patients
Taking Torsemide Versus Furosemide
- How Does ECT Treatment Affect the Changes of Future Psychiatric Hospitalizations?
A Retrospective Study
- Evaluating the Effect of Vitamin D Supplementation on Long Term Prednisone Dosage in
Systemic Lupus Erythematosus