Ryan Travis

DATA SCIENTIST

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Experience

Data Scientist
ALARM.COM

Tyson's Corner, VA
Mar. 2020 - Present

- Gathered requirements from internal stakeholders and presented analysis results.
- Built advanced SQL data pipelines involving window functions, CTEs, and aggregate functions.
- Analyzed in-app ad offers to measure effectiveness and provide recommendations for improvement.
- Created machine learning models (logistic regression, GBM, etc.) to optimize targeting for marketing ads. Wrote SQL production code to implement logistic regression models.
- Performed analysis to determine drivers of user engagement for specific business segments.
- Provided ad hoc analyses, reporting, and dashboards across the Alarm.com business.

Data Analyst
POINT RIGHT INC.

Cambridge, MA
Sept. 2018 - Mar. 2020

- Created machine learning models for the prediction of injurious falls and pressure ulcers among nursing home residents.
- Assisted operations in the deployment of models into production.
- Transitioned legacy SAS code base to modern R code saving the company thousands in licensing fees.
- Fully automated reports and dashboards allowing for a large increase in the scale of production (from dozens to hundreds of reports or more) and a total reduction in delivery time of several days.
- Performed analysis of business decisions and presented results to stake holders, including the CEO, company leadership, and members of the board
- Trained new hires in team coding standards and version control (git).

Biostatistician
BETH ISRAEL DEACONESS MEDICAL CENTER

Boston, MA
June 2017 - Sept. 2018

- Served as lead statistician for two machine learning research projects that resulted in publications.
- Provided advanced statistical analysis of complex clinical trial data (phase II and phase III), which includes hierarchical and longitudinal data structures. Typical models included generalized linear models as well as time to event survival models.
- Provided statistical consulting to medical researchers.

Data Analyst
EVOLENT HEALTH

Arlington, VA
Feb. 2017 - June 2017

- Cleaned, combined, and then analyzed diagnosis, prescription drug, and medical data. Data retrieval and analysis involved writing Microsoft SQL Server queries and then analyzing the data with R and/or Python. Analysis consisted of descriptive statistics and regression models.
- Produced visualizations, primarily with the R package ggplot2, to assist in explanation and interpretation of analysis results.

Education

Texas A&M
M.S. STATISTICS

College Station, TX
2014-2018

West Virginia University
B.A. ECONOMICS, PHILOSOPHY

Morgantown, WV
2007-2013

Publications

2020	**Machine Learning for Prediction of VTE in Acutely Ill Patients**: Lead Statistician https://doi.org/10.1002/rth2.12292
2019	**Machine learning versus traditional risk stratification methods in ACS**: Lead Statistician https://doi.org/10.1007/s11239-019-01940-8

Skills

R, Python, SQL, git, SAS, Experimental Design, Randomized Control Trials, Regression Modeling, Supervised Learning, Exploratory Analysis, Data Visualization, Causal Inference, Bayesian Methods