






TREY CAPPS

CONTACT

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EDUCATION

Bachelor of Science
Statistics, Mathematics
North Carolina State
University
Aug 2020 - May 2022
Raleigh, NC

Associate of Science
Sandhills Community College
Aug 2019 - May 2020

Awards
2019 NJCAA Division III Men's
Golf National Champion

SKILLS

Programming
Python; SQL; R; SAS

Database
Postgres; MongoDB; MySQL

Visualization Tools
Streamlit; Tableau; R-Shiny

Version Control
Git/GitHub

Machine Learning
Regression; Classification;
Clustering

Statistics
Hypothesis Testing; Time Series;
Statistical Inference; Bayesian
Methods

Familiar With:
PySpark; AWS(S3,Redshift); Docker

WORK EXPERIENCE

Statistical Analyst Intern

Institute for Transportation Research and Education

August 2021 - May 2022 / Raleigh, NC (Remote)

- Leveraged experimentation and hypothesis testing to evaluate intervention effectiveness from over a decade of time series data solidifying that special programs were reducing crashes by around 7%
- Implemented various time series and regression techniques to determine high-impact violations which provided insights into ways to increase future intervention effectiveness
- Collaborated with a group of 3 GIS analysts to introduce and present program effectiveness to 20+ clients in a conference setting

Fulfillment Expert

Target

November 2020 - August 2021 / Raleigh, NC

- Averaged 30 hours per week in a face-paced environment to fulfill customer orders receiving district recognition for top productivity and accuracy on multiple occasions

PROJECTS

Spot-It

May 2022 - current

- Created an ETL pipeline with custom Python scripts to extract data from multiple APIs and load data into a NoSQL database
- Implemented a RESTful API, including multiple endpoints for data retrieval and model predictions
- Designed and deployed a prototype web application allowing users to find songs from certain subreddits

Undergraduate Research - Graduate Student Success

January 2022 - May 2022

- Utilized logistic regression to identify key factors contributing to student success providing stakeholders with insights to make department specific policy changes
- Collaborated with a group of 4 students and presented results at the research symposium

Patient Safety

October 2021 - December 2021

- Utilized unsupervised learning to extract topics from device reports reducing the manual review time by more than one-half
- Suggested future problem areas using time series analysis and forecasting methods