

Trey Capps

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EDUCATION

North Carolina State University

Bachelor of Science in Statistics, Minor in Mathematics

Raleigh, NC

Aug. 2020 – May 2022

Sandhills Community College

Associate of Science

Southern Pines, NC

Aug. 2018 – May 2020

Committed 30+ hours per week to Sandhills Community College Golf Team

EXPERIENCE

Statistical Analyst Intern

Institute for Transportation Research and Education

Aug. 2021 – May 2022

Raleigh, NC

- Designed experiments that leveraged regression techniques and hypothesis testing to quantify intervention effectiveness from over 10 years of time series data spanning multiple tables
- Implemented various time series techniques to determine high-impact violations which provided insights into ways to increase the effectiveness of future interventions
- Collaborated with a group of 3 GIS analysts to introduce and present program effectiveness to 20+ clients in a conference setting

PROJECTS

Spot It | *Python, Google Cloud, pandas, MongoDB, Airflow, Terraform, scikit-learn*

May 2022 – Present

- Developing a web application to allow Spotify users to find similar songs based on various Reddit communities providing users with an integration of the two platforms
- Utilized Apache Airflow to create a DAG to schedule and monitor a data pipeline that ingests data from multiple APIs and loads the data to cloud storage
- Experimented with clustering and linear algebra techniques to generate similarity metrics that will provide users with song recommendations

Undergraduate Research | *SAS, R, ggplot2*

Jan. 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 to present results at the research symposium

Patient Safety Topic Modeling | *Python, R, pandas, scikit-learn, nltk, matplotlib*

Oct. 2021 – Dec. 2021

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

TECHNICAL SKILLS

Languages: Python (Pandas, Matplotlib, NumPy, Scikit-learn), SQL, R

Tools: Tableau, Google Cloud Platform, Git, MongoDB

Statistics: Time series analysis/forecasting, Regression, Classification, Experimental design, Clustering

AWARDS

2019 NJCAA Division III Men's Golf National Champion June 2019