ISAAC BACA

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Education

DATA ANALYTICS BOOTCAMP   2023
Nashville Software School – Nashville, TN

MASTER OF EDUCATION – QUANTITATIVE METHODS   2021 - 2023
Vanderbilt University – Nashville, TN   3.93 GPA

BACHELOR OF SCIENCE – DUAL DEGREE IN PSYCHOLOGY & SOCIOLOGY   2014 - 2020
Middle Tennessee State University – Murfreesboro, TN   3.81 GPA

Skills

- **Python** (pandas, NumPy, seaborn)
- **SQL** (SQL Server)
- **R** (tidyverse: dplyr, ggplot2)
- **Tableau**
- **PowerBI** (Power Query)

- **Excel** (VLookup, Pivot Tables, Slicers, Charts/Graphs, Conditional Formatting, Power Query, Dashboards)
- **Statistics** (Regression, ANOVA, Multivariate methods, Multilevel modeling)

Projects

UNDERSTANDING THE RELATIONSHIP BETWEEN CITIZEN SATISFACTION LEVELS AND POLICE ACTIVITY IN NASHVILLE

- The Metropolitan Council of Nashville wanted to better understand the relationship between adverse events and levels of dissatisfaction with police. Specifically, they wanted to know if citizens are more dissatisfied with the police in areas where police activity is more frequent.
- The analysis was done on data from the Nashville open data portal using **SQL** and **Python**
- Results suggest that for some categories of police calls, there is a strong relationship with citizen dissatisfaction with police. However, for other categories of police calls, there is little to no relationship with citizen dissatisfaction with police.

Work Experience

HEALTHCARE POLICY DATA ANALYST - INTERNSHIP   JAN 2023 – APRIL 2023
Vanderbilt University Medical Center **–** Nashville, TN

- Used a large health care claims database to analyze opioid cap laws to determine whether these laws were effective in decreasing the quantity of opioid prescriptions during the post-partum period.
- Transformed data using SQL into a format that would be suitable for analysis in R studio.
- Used a working knowledge of statistical concepts and was expected to learn and advise the team on new statistical concepts as they became relevant to the project.
- Communicated insights derived from the analysis in a weekly meeting with a team of researchers and healthcare policy experts.
- Adapted to changing project requirements due to statistical methodology constraints, and deadline constraints.
- **SQL** and **R Studio** were used to perform a difference-in-differences regression analysis.
- Summarized and presented the findings which suggested that state opioid cap laws have not been effective in decreasing the quantity of opioid prescriptions during the post-partum period.