

Portfolio: Milestone 1

List of Projects

1) Effect of Home Cornhusker Football Games on Public Safety

[\[Link\]](#) Use R for analysis of crime and traffic incidents in Lincoln, NE on game weekends compared to non-game weekends.

2) Impact of immigrant grandparents on an individual's income

[\[Link\]](#) Python analysis to determine whether having grandparents born outside of the US has a significant impact on the income of an individual or family? [\[PowerPoint\]](#)

3) Web scraping and SQL with Nebraska breweries

[\[Link\]](#) Use Python for scraping tables on the web to collect data. Cleaning data into a useful format and combining using SQL joins. Standardization of addresses and phone numbers, and geographic mapping of brewery locations.

4) Categorization of Beans using Machine Learning

[\[Link\]](#) Multiclass classification of 7 bean species based on measurements. Includes EDA, visualization, standardization, feature selection, and evaluation of several models, including hyperparameter tuning.

5) Housing Price Modeling

[\[Link\]](#) Use R for analysis of different methods for predictive modeling of housing prices using different groups of features generated previously through an assortment of feature selection methods in Python.

6) Airline Safety Infographic

[\[Link\]](#) Infographic demonstrating the safety of flying, from the perspective of an airline customer.

7) Airline Safety Dashboard

[\[Link\]](#) Use of Power BI for interactive dashboard showing summary of airline flights and accidents over time and by flight type, aircraft type, location, and fatalities. [\[PDF\]](#)

8) Automation of Microbe Identification

[\[Link\]](#) Use of Machine Learning in Python for multiclass classification from an unbalanced dataset to aid in rapid identification of microbes.

9) Placeholder

Placeholder for Project 2

10) Placeholder

Placeholder for Project 3