

FOOD DESERTS & THEIR EFFECTS

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Group 1 knew we wanted to work with the topic of food deserts. Given the time limit on the project, we narrowed the scope down to our current topic as it deals with an important subject but was managable in the time peroid we had.

We pulled our data from a multi-year long study from the USDA about food access in the US. We hope to use that data to find out how living in a food desert affects the obesity mortality rate in various counties in the US.



Data

Exploration

INITIAL LOOKOVER

Looked over selected data to see information it presented

2

ADDED DATA

Added new data sets that were a better match

4

COLUMN SELECTION

Filtered data set coulmns down by relevancy

1

NULL VALUES

Eliminated some data sets because of excessive null values

3

TARGET PICKED

Spent time with Kevin picking a target value

5



Data Analysis

FEATURE ENGINEERING

Averaged data results from two different years, used Standarized Scaler

MODEL SELECTION

Chose to use Random Forest Regressor model

2

EDA

Changed target feature to obesity rate when training scores were too low for diabetes.

3

SUMMARY

Found five factors that heavily influnced obesity mortality rate, the biggest one being expenditure per capita at full service restaurants

4

Dashboard Info



INTERACTIVE ELEMENTS

Users can interact on Tab 3.

They'll be able to select
values from a drop down
menu and slider scales to
find how the obesity
mortality rate in their
county would change if
there were some changes..



TOOLS USED

For now we're going to use Javascript, Python, Plotly, and VSCode. We might use more in the future.

Dashboard Layout

HOMEPAGE (TAB 1)

Project Title

TAB 1

TAB 2

TAB 3

ABOUT THE PROJECT

Project Description

Link to repository

Dashboard Layout

VISUALIZATIONS (TAB 2)

Project Title

TAB 1

TAB 2

TAB 3

DATA VISUALIZATIONS

Chart/Graph

Chart/Graph

Possibly heat map

Chart/ Graph

Dashboard Layout

INTERACTIVE (TAB 3)

Project Title

TAB 1

TAB 2

TAB 3

HOW DO FOOD DESERTS

AFFECT OBESITY MORTALITY

IN YOUR COUNTY?

User Input

Output