**Fast Food Establishments per Capita Compared to State Obesity Rates**

James Beckmeyer

Ran Ji

Alfred Gorvie

Mercedes Sifontes Garcia

Objective:

The objective of this project is to examine the relationship between fast food establishments per capita and obesity rates across different US states. The project aims to create a choropleth map that visualizes the data and analyzes whether there is a correlation between these variables.

Our primary datasets for the fast food location per capita per state will come from NiceRx, which in turn has pulled their data from the Census Bureau.

Sources:

<https://www.cdc.gov/obesity/data/prevalence-maps.html>

https://www.nicerx.com/fast-food-capitals/

Tech Stacks:

Python: Programming language used for building the ETL pipeline

BeautifulSoup: Data extraction library

Pandas: Data analysis library

PostgreSQL: Open-source relational database used for data storage

Flask: web framework to build the API

JavaScript for functionality: JS is the core technology that powers the dashboard.

Plotly.js: This library for JavaScript is used to create the interactive charts and graphs.

D3.js: This library helps to handle data manipulation

Leaflet.js: Map building library

？？？: one more js library unintroduced in class

HTML/CSS: structure and style the website.

Rough Breakdown of Tasks:

1. Build pipeline to extract, transform, and load fast food establishments/obesity  data
2. Set SQL database for food and state obesity data. contains at least100 unique records
3. Analyze data and design the dashboard
4. Set web framework powered by a Python Flask API
5. Call the API using Javascript to g
6. Create html page(s) show the map and charts
7. Prepare presentation