Team Name: Git Pandas

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Description of your research:

Is fast food linked to health problems? Are fast food restaurants more common in lower income areas?

For our project we will be comparing Census API Data with Google Maps API and USDA data to find the number of fast-food restaurants. Our goal is to analyze the amount of food fast restaurants with demographic/socioeconomic data and health data by zip code. The goal is to see if a correlation exists between fast food restaurants data and the demographic information.

\*Our findings assume that frequently eating fast food will poorly affect your health and fast food is a relatively cheaper and convenient food option.

Project Description/Outline:

We will be choosing areas across California and analyze the census demographics, fast food restaurants per county and the health problems associated in that area. Using the API census data, we will analyze social and economic profiles for populations. We will find the amount and concentration of fast-food restaurants with the Google Maps API and USDA data. We will look at the health factors of our given population and compare that to both census data and fast-food restaurants. Our findings will show a correlation between the prevalence of fast-food restaurants, the populations’ demographics, and their health problems.

Research Questions to Answer:

Census Demographic Data: (Assessing counties across California)

What is the prominent demographic that represents this area?

What is the median household income?

What is the median number of individuals in a household?

Fast Food Restaurant Data:

What is the concentration of fast foods restaurants in the selected county?

Health Data: (Looking particularly at Adult Obesity)

How high is the concentration of these health factors in our population areas?

These questions will help us predict a correlation between county demographic type and if the concentration of fast-food restaurants is causal in health factors prominent in these counties’ populations.

Data Sets to be used: Census and Google API and Health data

Census:

https://www.census.gov/data/developers/data-sets/acs-1year.html

Use Data Profile and Selected Population Profile

DP: api.census.gov/data/2019/acs/acs1/profile?get=group(DP02)&for=us:1&key=YOUR\_KEY\_GOES\_HERE

SP: api.census.gov/data/2019/acs/acs1/spp?get=NAME,group(S0201)&for=us:1&POPGROUP=001&key=YOUR\_KEY\_GOES\_HERE

https://www.census.gov/data/tables/time-series/demo/popest/2010s-counties-total.html

Google Maps API: <https://cloud.google.com/maps-platform/places/>

Fast Food Data: https://www.ers.usda.gov/data-products/food-environment-atlas/go-to-the-atlas/

Health Data: <https://letsgethealthy.ca.gov/goals/living-well/reducing-adult-obesity/>

Rough Breakdown of Tasks:

-Create Powerpoint Shell - KC

-Collect Fast Food data for all counties in CA in 2011, 2016, put into separate Data Frames - JS

-Collect Census data for all counties in CA in 2011, 2016, put into separate Data Frames -

-Collect Health data for all counties in CA in 2011, 2016, put into separate Data Frames

-Merge relevant data into Data Frame

-Run stats (correlation, linear regression, outliers, means, etc), provide visuals

-Create California map visual showing concentration of fast-food restaurants by counties