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| Capstone Project for Data Science  2020 |
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| Business Problem ‘Health is wealth’ is quite known and old saying. Eating well and exercising are supplementary to each other. Many doctors recommend that after a good workout, one needs to rest and eat something healthy as body absorbs it rampantly. We have gyms and fitness centers for working out but for keeping the dietary restrictions in place we need health food centers. The question is where to open such centers so that they are able to generate profits and people are able to make well use of it. The initial cities that are on the mind are Los Angeles and New York City primarily because of their diversity and population.   Proposed Solution Data for gyms/fitness centers/yoga studios/wellness centers would be collected for the two most populous cities of USA and compared with each other in terms of which one has more spread of the fitness centers and type of institutes. This would help to understand the comparison between the cities and prospective areas of opening Health Snack Centers. These health snack centers can also deal with workout equipment/accessories if required. The reason for comparison is to check which city can be targeted first in regard to dense cluster of centers.  Data Gathering  For collection of data, we need to find health centers in the cities and then plot the map to see how they are distributed within the city. More the dense cluster, more probability of project working out. Also, we need to determine which type of center is more dominant in any city to reckon the scope of equipment sale along with snack bar. For example, people who go to gyms would immediately need protein supplements and those going for Yoga would prefer a fresh juice/fruit salad.  Data Sources  To get the centers, we would be utilizing Foursquare API which give the coordinates of the centers so that we can easily plot them on map. We would be using bar graph to group the type of health centers on basis of their category and mention their number. For example, for LA, this is how a bar diagram looks like:    And then there would be a map using Folium library, which would show the density of health centers within the city and are prospective places to have health snack centers/equipment store. |
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