

Capstone Project - The Battle of Neighborhoods

Introduction

I currently live in NYC and love to work out. I enjoy many types of workouts; cardio, weights, cycling, yoga, etc. Variety is very important to me to ensure I mix up my muscle group workouts and to avoid boredom. I was just informed that my job will be relocating to Toronto and I have agreed to make the move to the city. For me, proximity to work is not as important to the proximity of a variety sources of workouts. The problem that I am trying to solve is what neighborhood in Toronto offer the most variety of workouts.

Intended Audience

Gym enthusiasts who plan on moving to the Toronto area are the key audience for this project. We want to showcase all they fitness options a neighborhood has to offer.

Data

The following will be used as input data for the project.

- Wikipedia page containing the postal codes of Toronto, Canada:
https://en.wikipedia.org/wiki/List_of_postal_codes_of_Canada:_M. This will be transformed into a dataframe where we will filter out Toronto neighborhoods.
 - **Data Cleaning**
 - Only process the cells that have an assigned borough.
 - More than one neighborhood can exist in one postal code area. These two rows will be combined into one row with the neighborhoods separated with a comma.
 - If a cell has a borough but a Not assigned neighborhood, then the neighborhood will be the same as the borough.
- Geospatial Data to get the geographical coordinates of each postal code:
http://cocl.us/Geospatial_data
- Fousquare API to get a list of all gyms in an area.