Battle of the Neighborhoods

Coursera Applied Data Science Capstone Project

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Introduction

In this project, I will use techniques learned in the Applied Data Science courses to determine which group of neighborhoods in Cleveland, OH has the highest rated restaurants.

This information will be useful to people who are looking to move to the Cleveland area . Knowing where good restaurants are might influence on what side of town they decide to live.

Real Estate agents would also be interested in this report as they could provide additional neighborhood data to their clients.

Data

I found open source data on the internet that contained information about the different municipalities in Cleveland and their latitude and longitude.

Methodology

Once I collected and cleaned the data, I used folium to map the different municipalities in Cleveland.

Then I used the kMeans Clustering Algorithm to group the municipalities into 3 groups - Eastern, Western and Central Neighborhoods.

Then I called the FourSquare API to retrieve and compare the data about restaurants in each neighborhood group.

Results

The average rating of restaurants on in the Western neighborhoods was 7.884 where the Central and Eastern neighborhood restaurants averaged 7.748 and 7.428 respectively.

Discussion

My program determined that the neighborhoods on the West Side of Cleveland have slightly better rated restaurants than either the Central or Eastern neighborhoods.

Just for fun, I also determined the highest rated restaurants in each neighborhood group. So if you are in the area, you should try the following eateries:

Eastern Cleveland - Presti’s Bakery
Central Cleveland - Honey Hut Ice Cream Shoppe and Rising Star Coffee Roasters
Western Cleveland - Angelo's Pizza

Conclusion

The difference in the average restaurant rating in the different neighborhood areas is not large and therefore, if you are moving to Cleveland, I don't think average restaurant rating should be a major contributing factor to where you move!