

THE BATTLE OF NEIGHBORHOODS

FINAL PRESENTATION FOR

APPLIED DATA SCIENCE CAPSTONE PROJECT

By

CORELLETA KASEKE

Table of Contents



Introduction



Business Problem



Data



Methodology



Results



Introduction

- Confectionery Limited is a Multi-National Company that specializes in confectionery products such as assorted icecreams, chocolates, cookies and candies.
- The company has succeeded in the various locations that it is currently operating and wishes to make great returns from a new shop in Manhattan, New York, USA.



Business Problem

- The company has been presented with two investment opportunities to open a new shop in one of two locations.
- As a result, the company must choose the location that offers a possibility of greater revenue and thus profits.
- Due to the nature of its products, the company is looking to locate near schools as young people are their greatest customers.
- The aim of this study will therefore be to find the best area to open this new venture for Confectionery Ltd based on the most valued attributes.



Data

- The analysis will make use of Foursquare data together with geo-data of New York, Manhattan downloaded here: https://cocl.us/new_york_dataset
- The variable that was mostly of interest was the availability of customers in the two locations provided. This was mostly the number of schools that were in the vicinity. However, the study also had to include the number of trending venues so as to filter down the best location from the two.
- Foursquare API was used to get data for number of schools and trending venues in the vicinity.

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Methodology

- First step included downloading the json data of New York.
- The data was converted to a pandas dataframe.
- The data had to be filtered to represent only the data for Manhattan as the locations are in Manhattan.
- Format and normalize the data.
- Geolocator-Nominatim was then used to find the geo-coordinates of the two locations.
- Foursquare was then used to obtain various data pertaining to schools in the vicinity of the two locations.
- Foursquare was then used to obtain various data pertaining to trending venues in the vicinity of the two locations.
- Represent the data visually with maps using Folium.

Result 1: Schools nearby

Location 2 and schools nearby

Location 1 and schools nearby



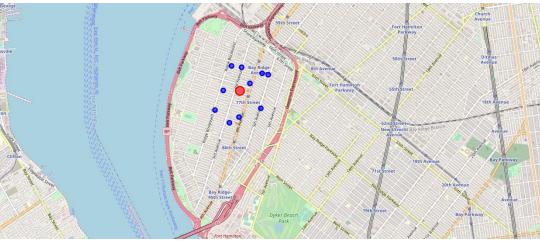


Results 2: Schools and Trending venues nearby

Location 2: Schools and Trending venues

Location 1: Schools and Trending venues nearby-no trending venues







QUESTIONS??

Thank you!!!!!!!!!