Capstone Project - IBM Data Science Professional Certificate on Coursera

The Battle of Neighborhoods - Week 1

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1 Introduction

The opening of a new business is a matter which requires several considerations - from finding finacing to working the logistics of hiring staff and buying new equipment. This project will focus on one of these aspects, namely how to choose the right location, in this case, for a new Italian restaurant in the city of Miami. By studying the locations where current Italian restaurants thrive in the forementioned city, one can make an educated decision in order to maximize the chances of a successful outcome when opening a new one.

This report and its findings aims at to aid its main stakeholders, amongst who we could point businessmen in the city of Miami and its vicinities, who are interested in expanding their current business or investing in a new one; Italian cuisine chefs; and the Italian community of Miami.

2 Data

The data used in this project come from:

- Foursquare used to retrieve the venues in the city of Miami. With the Foursquare data, one can identify which are the most popular venues in Miami, and observe the popularity of Italian restaurants in each neighborhood and where they mainly thrive.
- Wikipedia-https://en.wikipedia.org/wiki/List_of_neighborhoods_in_Miami used to retrieve the list of neighborhoods in Miami in Miami-Dade County, Florida, United States, together with its coordinates. This data is used together with the Foursquare data to understand how Italian restaurants are distributed in the neighborhoods of Miami. The dataframe scraped from the Wikipedia page can be seen in Fig. 1.



Figure 1: Dataframe scraped from Wikipedia

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