



Coursera Capstone Project

Opening a Traditional Chinese restaurant in Milan

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Business Problem

- The location of a restaurant is one of the most important decisions that will determine whether investment will be a success or a failure;
- Objective: Analyze and select the best locations in the city of Milan, Italy to open a new Chinese restaurant;
- Business question:
 - In the city of Milan Where should I open a traditional Chinese cuisine restaurant?



Data

- Data required:
 - List of neighbourhoods in Milan;
 - Latitude and longitude coordinates of the neighbourhoods;
 - Venue data, particularly data related to Chinese restaurants;
- Sources of data
 - Wikipedia page for neighbourhoods
(https://it.wikipedia.org/wiki/Categoria:Quartieri_di_Milano)
 - Geocoder package for latitude and longitude coordinates
 - Foursquare API for venue data

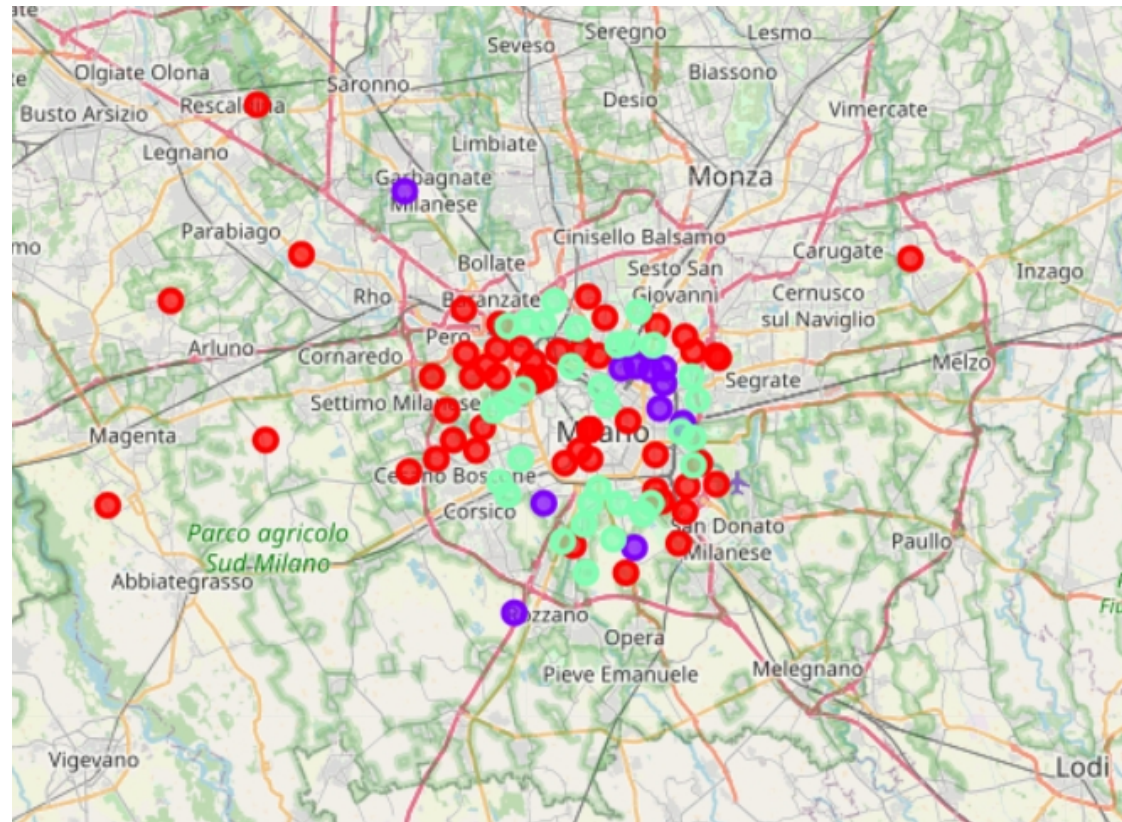


Methodology

- Web scraping Wikipedia page for neighborhoods' list
- Get latitude and longitude coordinates using Geocoder
- Use Foursquare API to get venue data
- Group data by neighborhood and taking the mean of the frequency of occurrence of each venue category
- Filter venue category by Chinese Restaurant
- Perform clustering on the data by using k-means clustering
- Visualize the clusters in a map using Folium

Results

- Cluster 0 (Red):
Neighbourhoods with virtually no chinese restaurants;
- Cluster 1 (Violet):
Neighbourhoods with high number of chinese restaurants;
- Cluster 2 (Green):
Neighbourhoods with medium concentration of chinese restaurants;





Conclusions and Recommendations

- Answer to business question: The neighborhoods in cluster 0 in between the green one are the most preferred locations to open a new Chinese restaurant;
- Avoid neighborhoods in cluster 1. There's already a high concentration of Chinese restaurants and intense competition;
- Most of the Chinese restaurants are concentrated in the central area of the city