

Coursera Capstone Project — The Battle of Neighbourhoods

Questions:

What type of restaurants are most popular and attended in Warsaw Capital City?

What Warsaw district has most venues?

Introduction

Warsaw is the capital and largest city in Poland. It's ethnically diverse. The metropolis stands on the Vistula River in east-central Poland and its population is officially estimated at 1.8 million residents. With a greater metropolitan area of 3.1 million residents, Warsaw is the 5th most-populous urban area in the European Union. Warsaw is major international tourist destination, and a significant cultural, political and economic hub. Warsaw is one of the most beautiful cities in the Europe. It is an important scientific, cultural, political and economic center. It consists of 18 districts.

With its diverse culture, comes diverse food items. There are many restaurants in Warsaw, each belonging to different categories like Chinese, Indian, French etc.

Data

Following data will be used in this project:

- Warsaw data about its districts along with their latitude and longitude. By using this geo space data we will get Visualized Warsaw districts boundaries/

Data Source: <https://raw.githubusercontent.com/andilabs/warszawa-dzielnice-geojson/master/warszawa-dzielnice.geojson>

- Restaurants in each district of Warsaw. Using this api will give us info about restaurants in each district.

Data Source: Fousquare API

Use of data

Fousquare API will be used to collect info about location data and popularity info about restaurants in Warsaw districts. Then data will be used to find which district has most venues. And what type of restaurant is most popular in Warsaw.

Geolocation data contains Warsaw and its districts borders. It will be used to construct map of Warsaw with addition of district popularity data.

Methodology

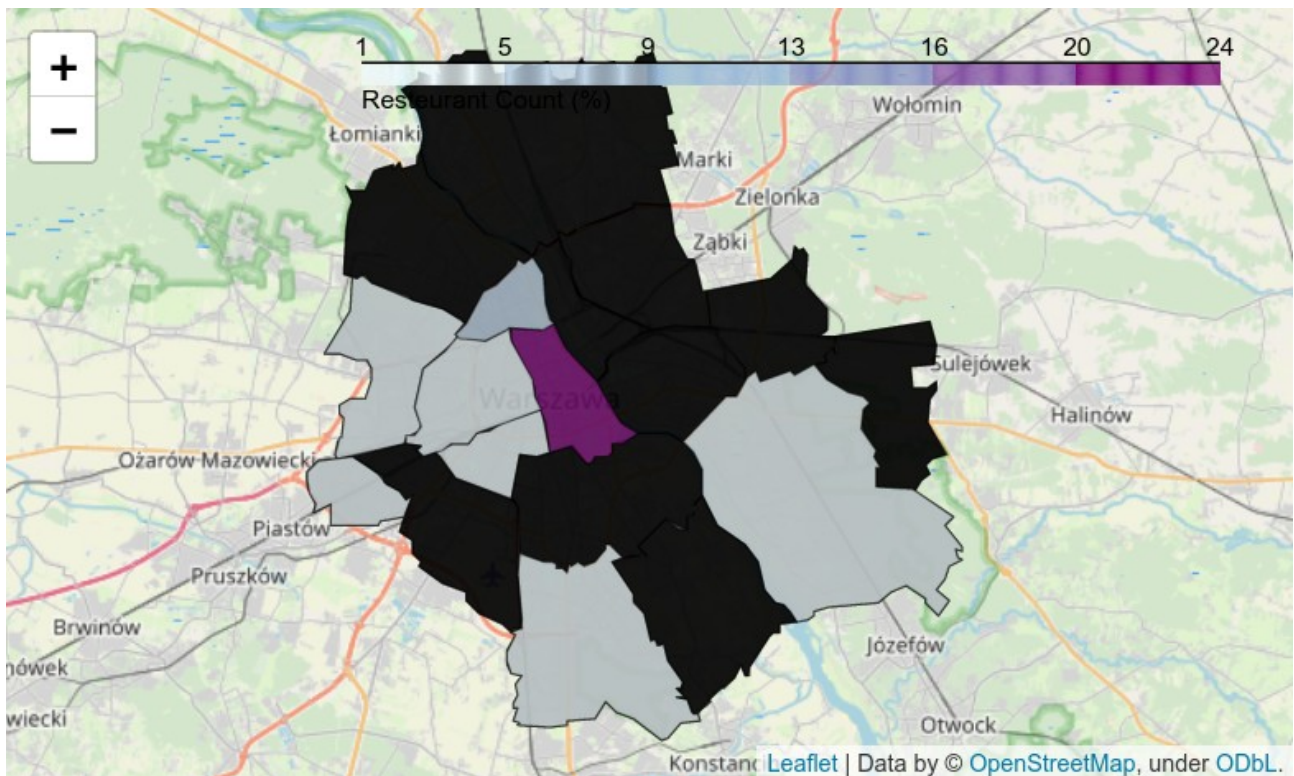
1. I used Foursquare api to get venues in each district in Warsaw.

	Venue	Latitude	Longitude	Category	Neighbourhood
0	A Modo Mio	52.208831	20.974334	Italian Restaurant	Ochota
1	Sedo Kebab	52.213745	20.978785	Turkish Restaurant	Ochota
2	Van Binh	52.210750	20.975944	Vietnamese Restaurant	Ochota
3	Smak Tradycji	52.210847	20.972557	Restaurant	Ochota
4	La Fiaccola	52.240811	20.912208	Italian Restaurant	Bemowo
5	Thai Me Up!	52.233707	21.020641	Thai Restaurant	Śródmieście
6	Bar Cô Tú	52.233142	21.020421	Asian Restaurant	Śródmieście
7	Supperlardo	52.232523	21.016744	Polish Restaurant	Śródmieście
8	Zaplecek	52.231529	21.019705	Polish Restaurant	Śródmieście
9	Raj w Niebie	52.232394	21.018595	Hawaiian Restaurant	Śródmieście

2. Grouped data by district to see what Warsaw district has most venues.

	Neighbourhood	Venue
0	Śródmieście	24
1	Żoliborz	6
2	Ochota	4
3	Bemowo	1
4	Ursus	1
5	Ursynów	1
6	Wawer	1
7	Wola	1

3. I've used Choropleth to visualise the data on map.



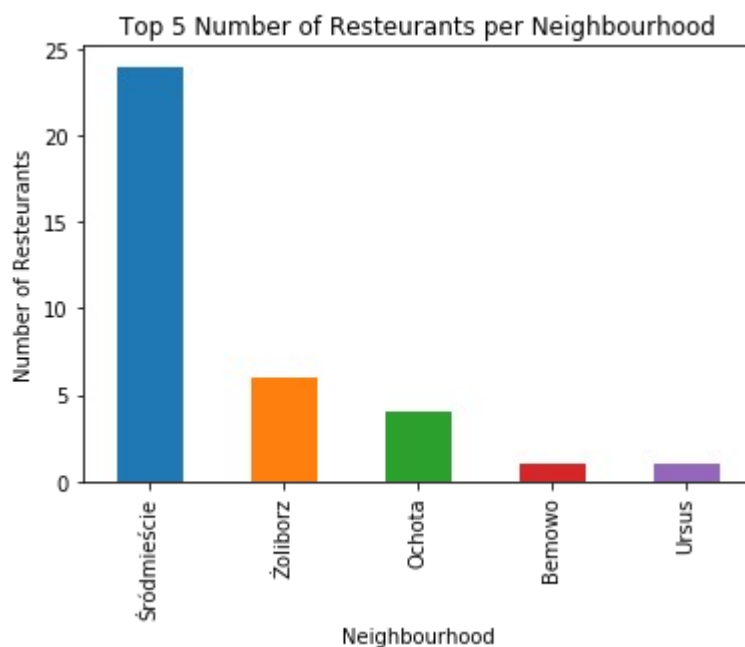
4. I've grouped a data by category to see what type of restaurant is most popular in Warsaw.

Category	
Italian Restaurant	8
Vegetarian / Vegan Restaurant	4
Polish Restaurant	3
Asian Restaurant	2
Mexican Restaurant	2
Thai Restaurant	2
Sushi Restaurant	2
Modern European Restaurant	2
Mediterranean Restaurant	2
Falafel Restaurant	2
Vietnamese Restaurant	2
Dim Sum Restaurant	1
Kebab Restaurant	1
Indian Restaurant	1
Hawaiian Restaurant	1
Restaurant	1
Fast Food Restaurant	1
Turkish Restaurant	1
Dumpling Restaurant	1

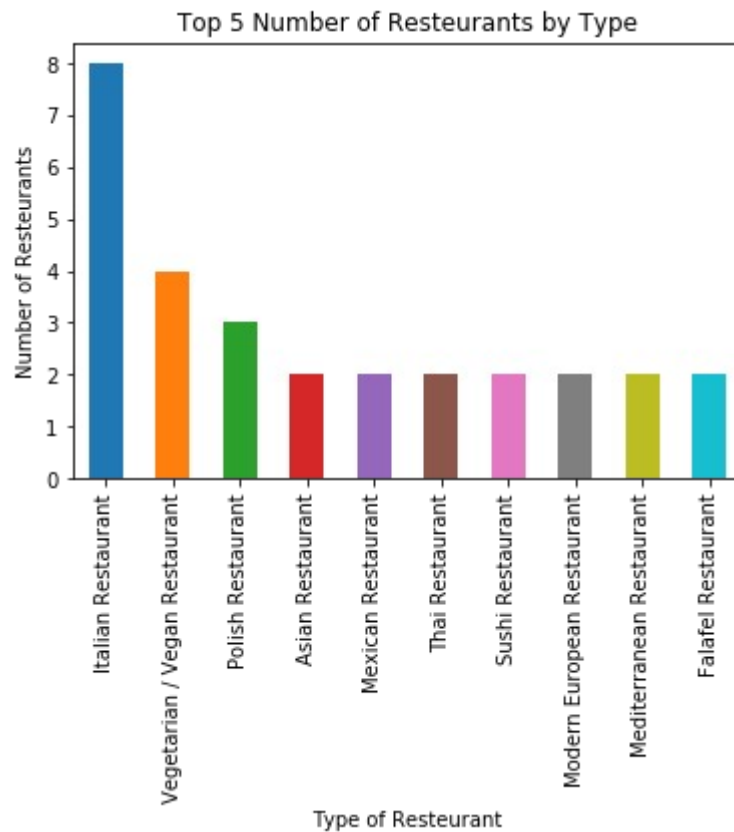
Name: Venue, dtype: int64

Results

1. *Śródmieście* district have most restaurants in Warsaw (24). Second is *Żoliborz*.



2. Most popular type of restaurant is *Italian Restaurant*. Second is *Vegetarian / Vegan Restaurant*.



Conclusion

- Most of the restaurants are located in Śródmieście district.
- Best district to recommend with a lot of venues is Śródmieście district.
- Warsaw people prefer Italian Restaurants.