# Searching a location for the new Italian restaurant

IBM/Coursera Applied Data Science specialization course

# Good restaurant location is necessary for a new restaurant

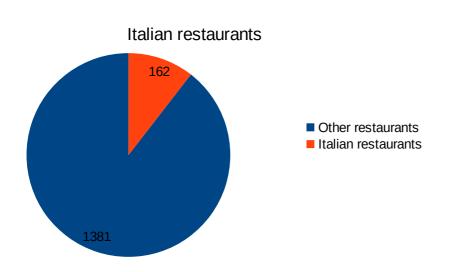
- Restaurant business is highly concurrent but good location allows to decrease concurrence intensity.
- It allows you to find you guests.
- It allows you to minimize you logistics and expenses.
- Good location is hard to find. There are many contradicting requirements.

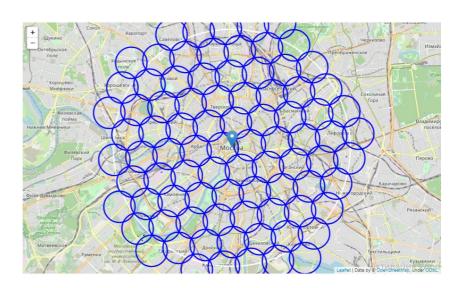
#### Data acquisition and cleaning

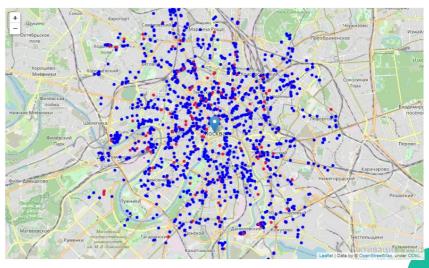
- Moscow coordinates and all geolocation data through openstreetmap.org services.
- Actual venues and categories data provided by Foursquare services.
- 86 local areas generated with 7 features in each.
- 1543 venues with 10 features received.

#### **Data visualization**

- Restaurants align with main roads
- Italian restaurants locations mostly scattered

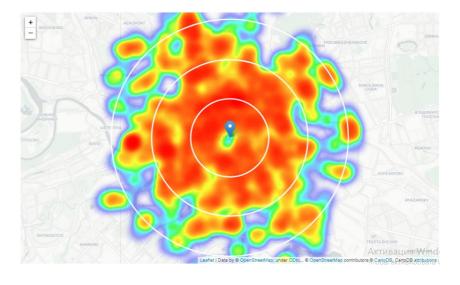






#### Restaurants heat map

- High density especially on the northern direction
- Most of the restaurants in radius of 4000 meters from center
- Have some spots to fit restaurant into

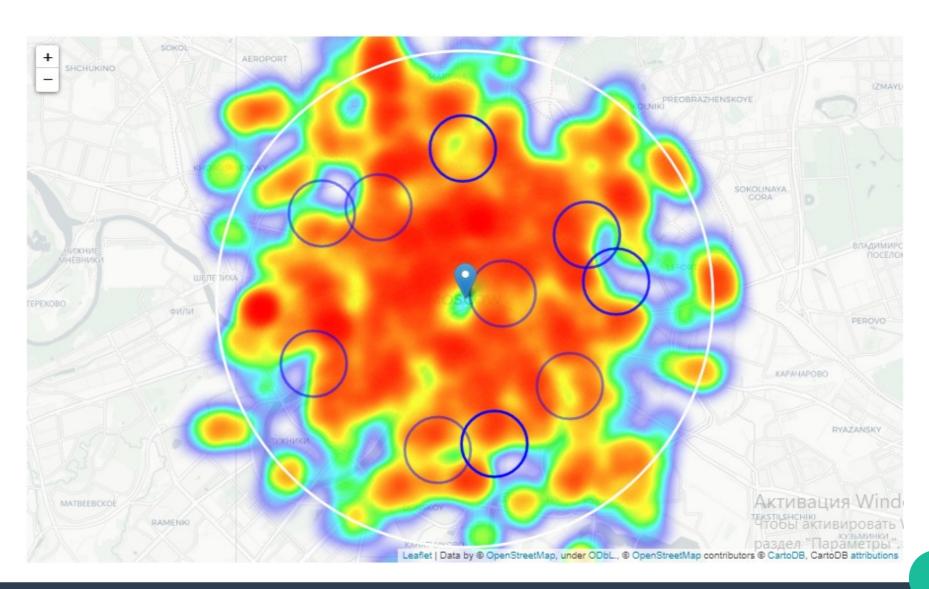




#### Locations quality map



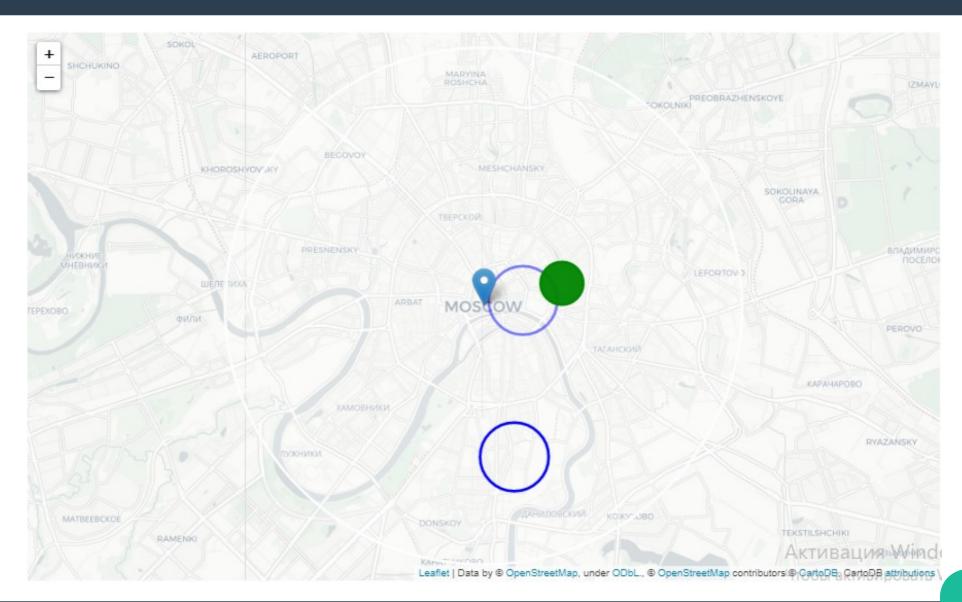
## Top ten best locations



### **Quality clustering centers**



#### Best locations for further investigation



#### **Conclusion and future directions**

- Decrease the size of the grid for more precise allocation
- Remove industrial zones and ecology problematic zones, also rivers and other type of terrain without buildings
- Add traffic intensity maps into the quality metric account
- Add area welfare and notoriety into location quality metric calculations