## The Battle of Neighborhoods - Italian restaurants in NY City

## 26 697

total number of restaurants in NYC in the 2017

## 1700+

Italian restaurants in NYC

#### Scope of analysis

- Areas with best italian restaurants
- Finding new place for restaurant
- In which area there are lack of italian restaurants
- Which are will be good for a longer stay

#### What will be considered?

- Localization of restaurants (both borough like also neighborhoods)
- Rating
- Price Tier

#### Also, in dataset there are:

- Likes count
- Photos count
- Tips count
- Reasons count

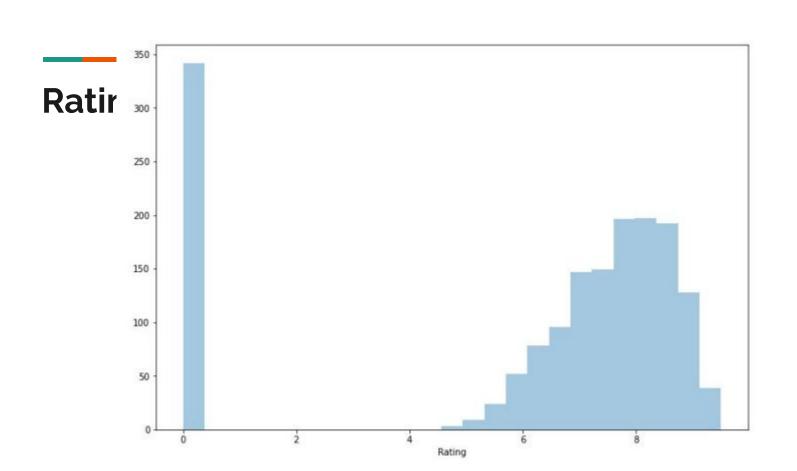
But they will be used only as a verification source.

#### Data acquisition and processing

- NYC file with borders of boroughs and neighborhoods, and their localization used as a list of neighborhoods, like also source for creating maps
- Foursquare API, which I've used to gather restaurants for specific area, like also to gather their details (both normal and premium calls to API)
- Duplicates were removed
- Chain restaurants were removed (e.g. Subway, The Meatball shop)

## 1649

Number of samples that will be used for analyze



### Where are our restaurants?



# Distribution of restaurants among neighborhoods





#### **Top 10% of restaurants**

Where we can find most of them?

- Brooklyn
- Manhattan

Only few percent of them are at:

- Queens
- Bronx
- Staten Island

Borough	Number of restaurants	Average rating	Median rating
Bronx	10	8.9	8.9
Brooklyn	56	9.0	9.1
Manhattan	88	8.98	8.9
Queens	8	8.98	8.95
Staten Island	5	8.98	9.0

Boroughs with small amount of top-rated italian restaurants

#### **Conclusions and future directions**

- Built a solid picture of current state of italian restaurants in NYC
- There is still place for consideration of new features or types of rankings
- Possible ideas for improvement:
  - More features from Foursquare API can be taken into consideration
  - Sentiment analysis of comments/tips
  - Gathering of demographic, economical data and addition of them to level of neighborhood and/or borough