



Data-informed way of traveling Rome



Introduction

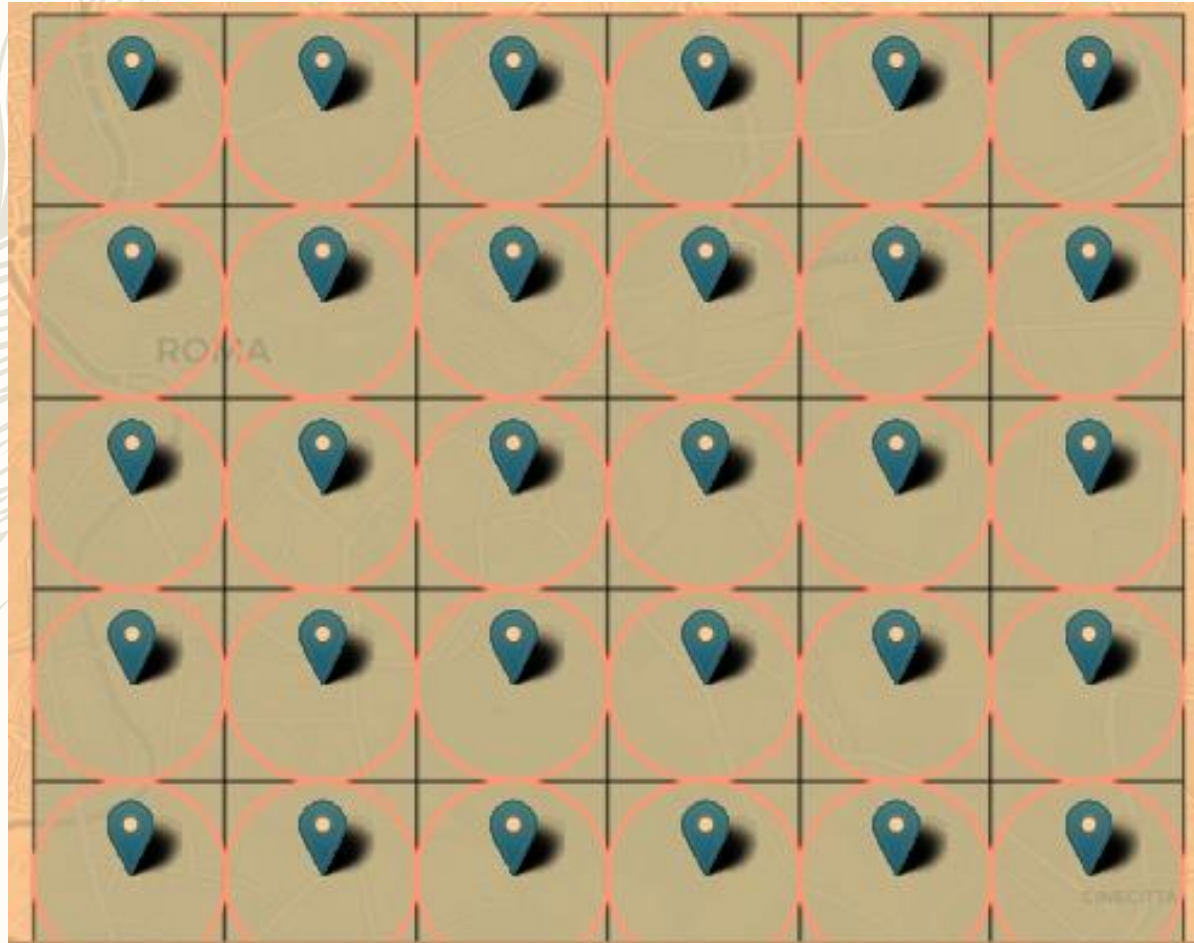
- Problem Statement: Doing research for travel is a pain, people do not want to spend that much time to search for everything but they fear missing out on the amazing adventure they could be having.
- Solution: We provide a easy and automated analysis for the best locations to visit when in Rome. It does not require extensive Googling (Yes, it's a verb!) and documenting in Excel.¶



Data Acquisition

- **Nominatim:** We will use it to convert address to lat/long coordinates as the starting point for generating our grid.
- **Foursquare API:** we will extract 50 local food places per each circle, radius = $1/2$ length of the square on the grid
- **Google API:** we will extract the user ratings and price level for each of the food places

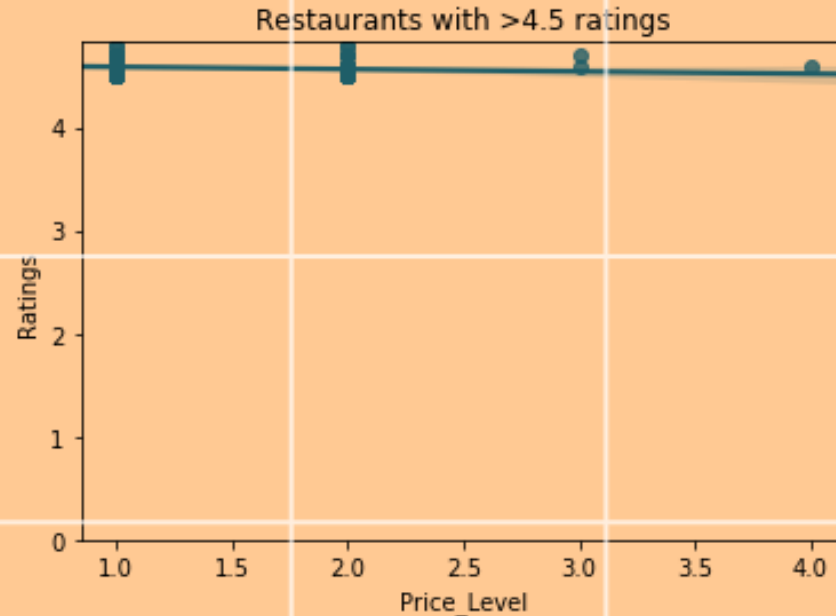
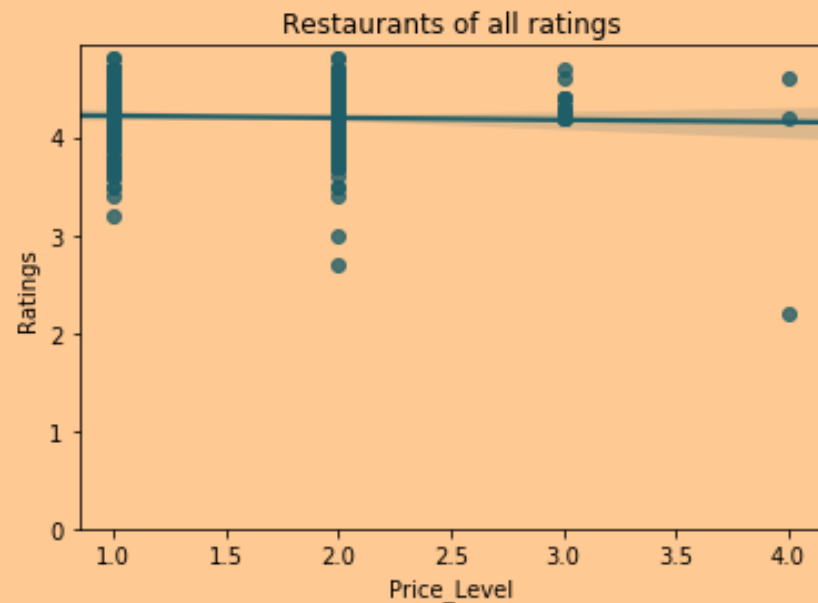
Creating a 6X6 grid (width=1.5km)



Heatmap of locations with >4.5 ratings on Google Maps



Very weak negative correlation between Price and User-rating



As seen from the box-plot below, the customer who paid the most, at Price Level 4 will have a wide range of ratings on their restaurants.

Cluster >4.5 Rating Restaurants Based on Location





- Red Marker Area:
Middle to high-end restaurants
Mostly Italian Restaurants

Gray Marker Area:
Budget restaurants
Mostly Exotic-flavors

Orange Marker Area:
Medium level price range
Mostly Italian Restaurants
