

Introduction: Business Problem

In this project we will find the best probable location for an Italian restaurant at Chicago Area.

Chicago has an extensive number of fantastic Italian restaurants, specializing in everything from traditional cuisine to contemporary flavors. Though many of these are located in Little Italy, there are many high-quality places spread throughout the other neighborhoods, bringing an authentic taste of Italy to every corner of the city.

So we will try to detect **locations other than downtown that are not already crowded with this kind of restaurant using also foursquare to determine the overall rating for the restaurants.**

Data

Based on definition of our problem, factors that will influence our decision are:

- number of existing restaurants in the neighborhood (any type of restaurant);
- Restaurants location around the neighborhood;

The following data sources will be used to extract/generate the required information:

- centers of candidate areas will be generated algorithmically and approximate addresses of centers of those areas will be obtained using a database file with the Chicago communities <https://data.cityofchicago.org/resource/igwz-8jzy.json>
- number of restaurants and their type and location in every neighborhood will be obtained using **Foursquare API**.