

# PREDICTING QUEENS CENTER CATEGORY

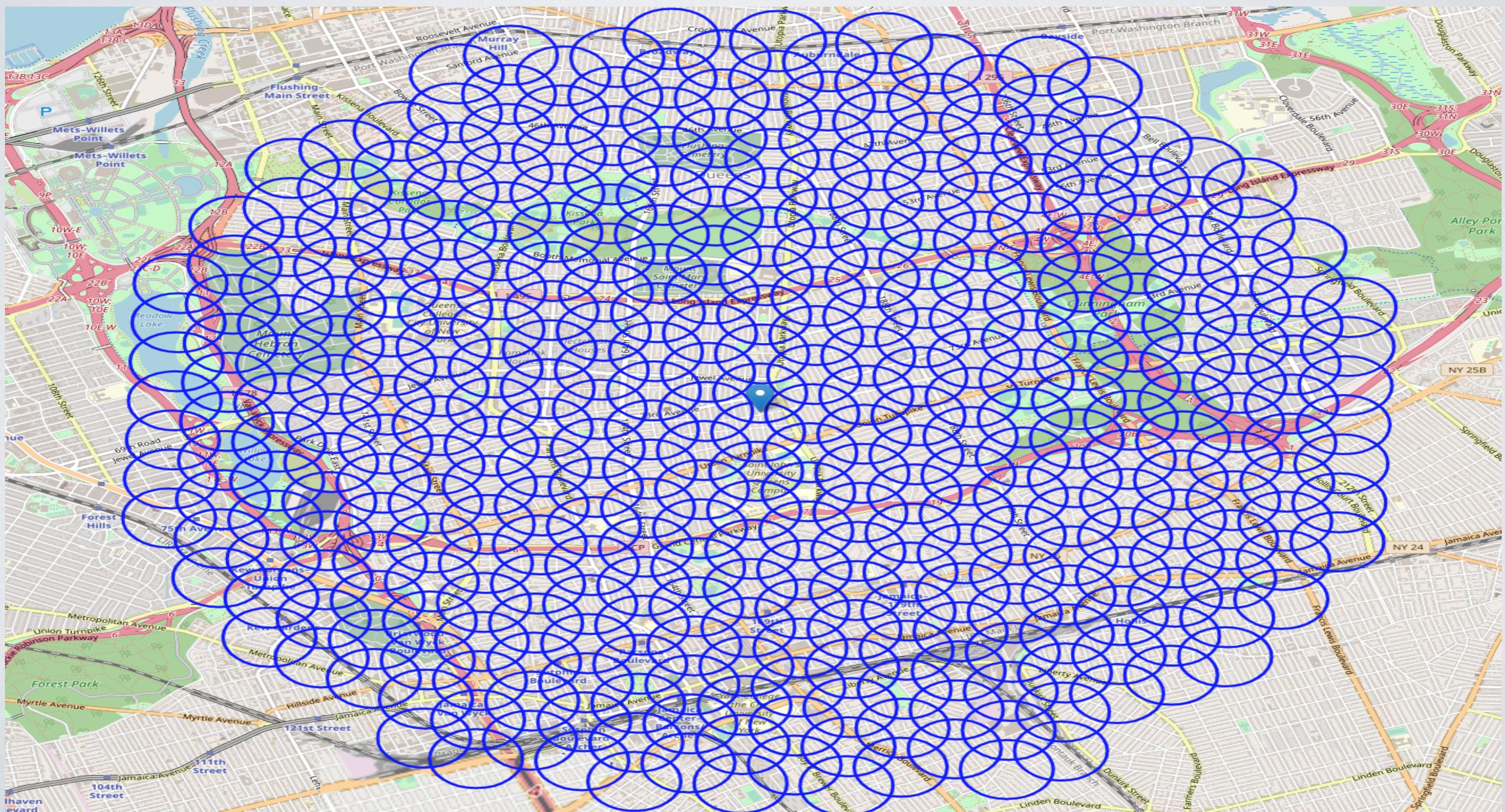
# CLUSTER CENTER IN NEW YORK UNITE STATES BY RESTAURANT AND SCHOOL

- - there are lots of restaurants in New York
- - detect locations that are not already crowded with restaurants
- - prefer locations as close to city center as possible
- - school is another factor to analyze the restaurant

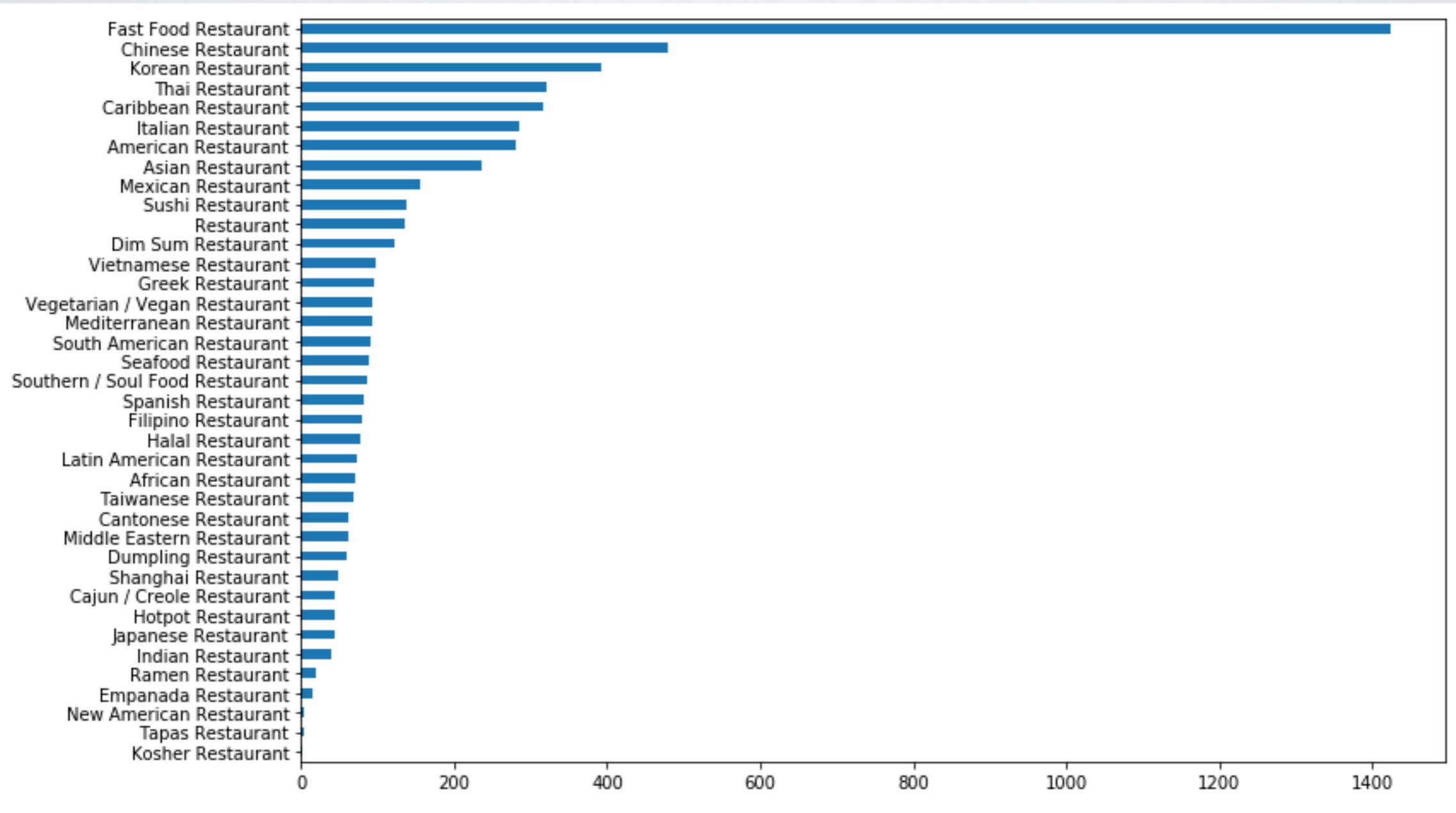
# DATA ACQUISITION AND CLEANING

- - Based on definition of our problem, factors that will influence our decision are:
- - number of existing restaurants in the neighborhood (any type of restaurant)
- - number of and distance to Italian restaurants in the neighborhood, if any
- - distance of neighborhood from city center
- - number of school in the neighborhood (any type of school)
- - centers of candidate areas will be generated algorithmically and approximate addresses of centers of those areas will be obtained using Google Maps API reverse geocoding
- - number of restaurants and their type and location in every neighborhood will be obtained using Foursquare API
- - coordinate of New York center will be obtained using MapBox API of well known New York Queens location
- - number of schools and their type and location in every neighborhood will be obtained using Foursquare API

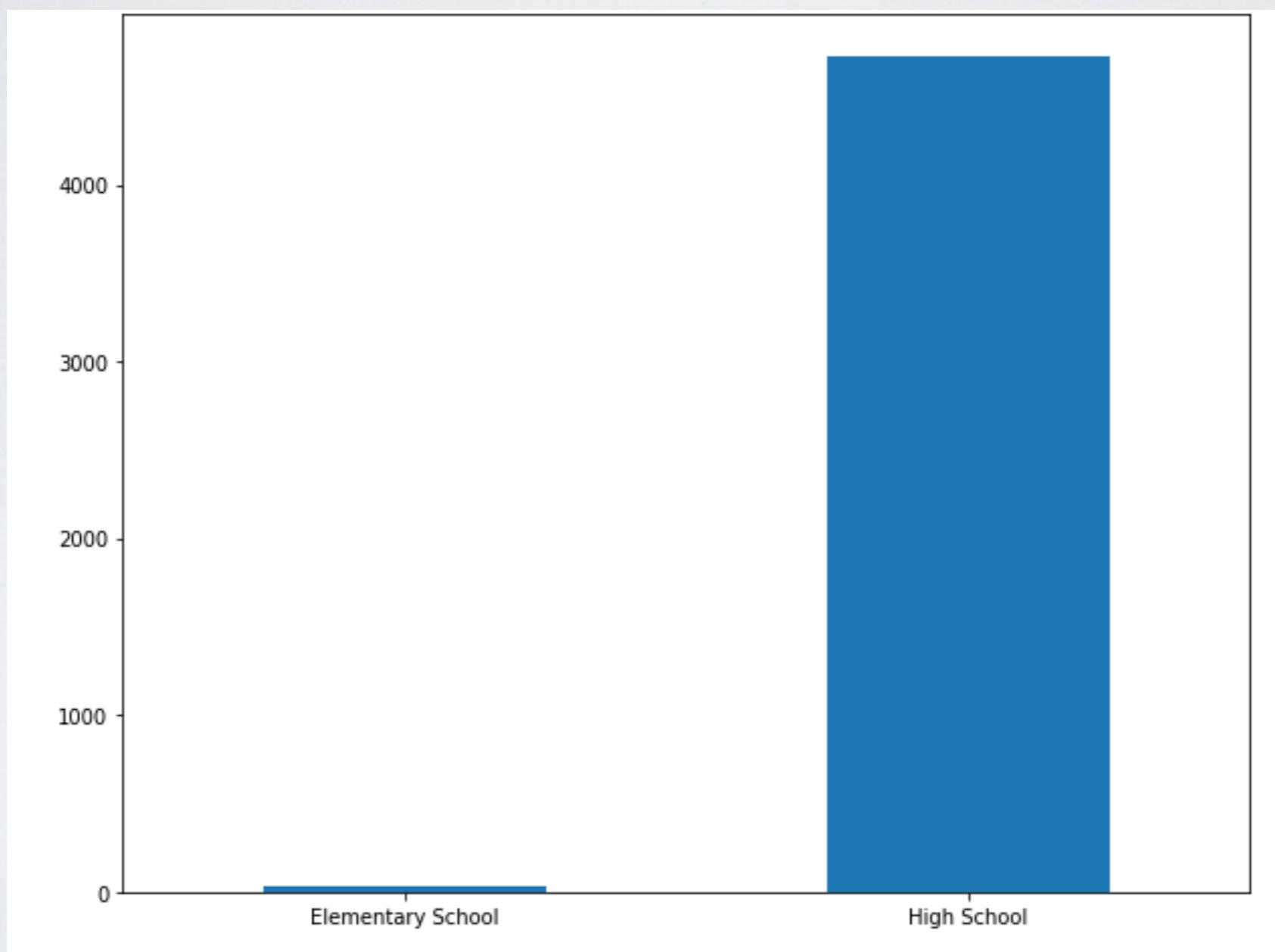
# AREA TARGET



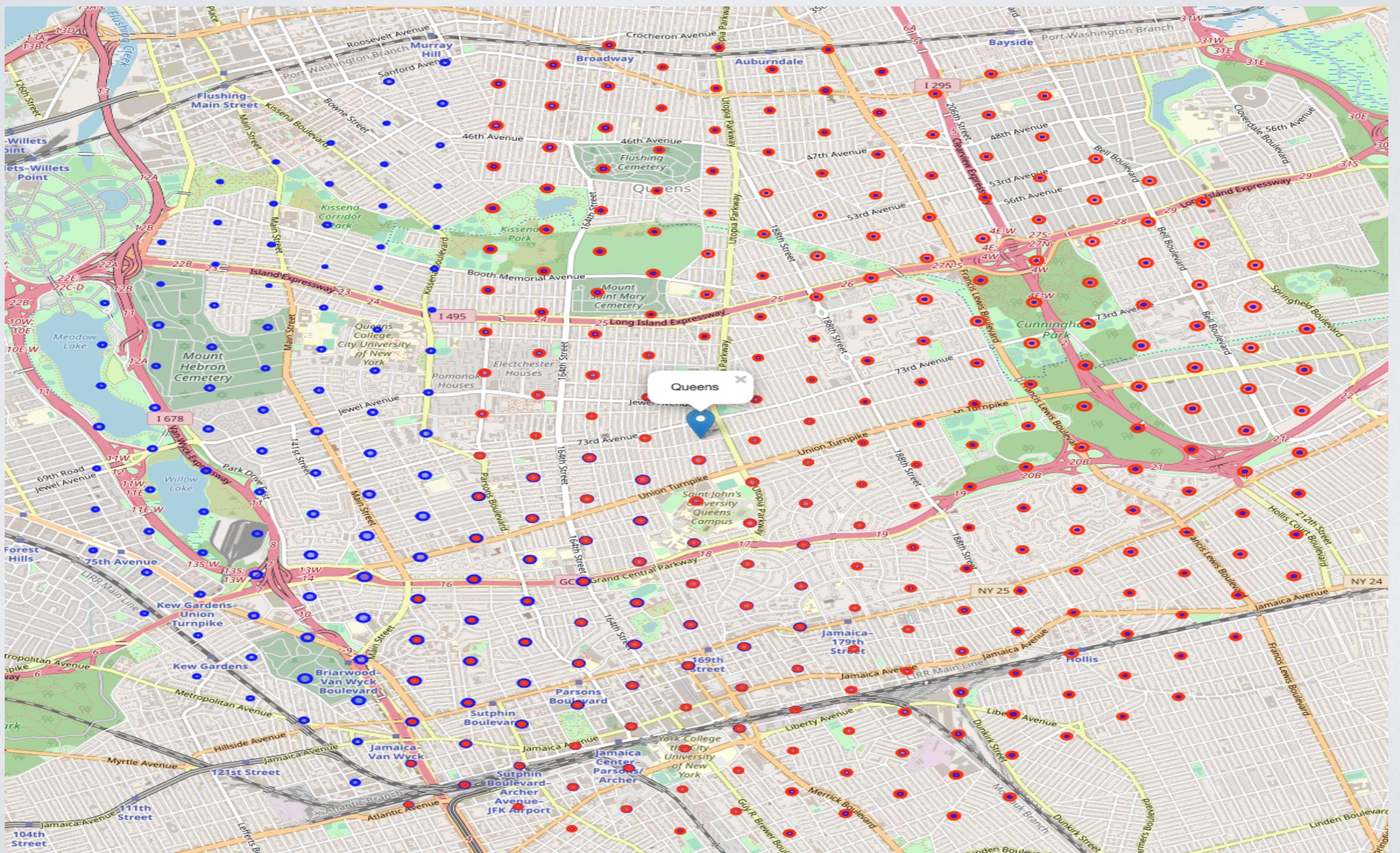
# RESTAURANT NUMBER



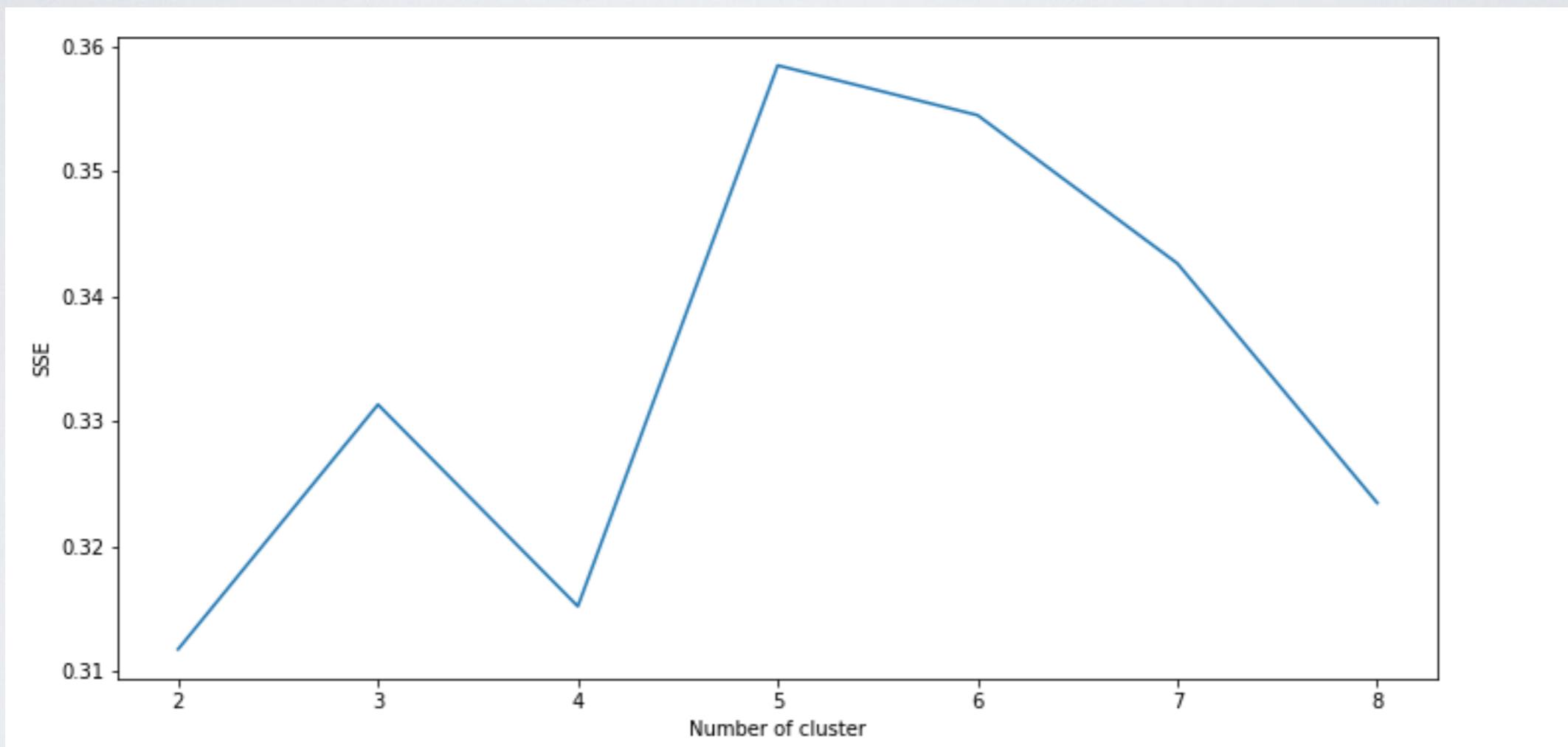
# SCHOOL NUMBER



# SCHOOL AND RESTAURANT DISTRIBUTION



# SELECT CLUSTER NUMBER



# LOCATION CLUSTER

