The-Battle-of-Neighborhoods

Applied Data Science Capstone Project

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Introduction

- In this project we will help the tourists who have never been to the US and who want to have only pizza.

- The problem we aim to solve is to analyze the Pizza stores' locations in the major US cities and find the best place for our tourist so that he can have a good pizza.

- Our main target are tourists with a taste of western-style pizza

Data

- Using FourSquare API to collect data about locations of Pizza stores in 5 major US cities.

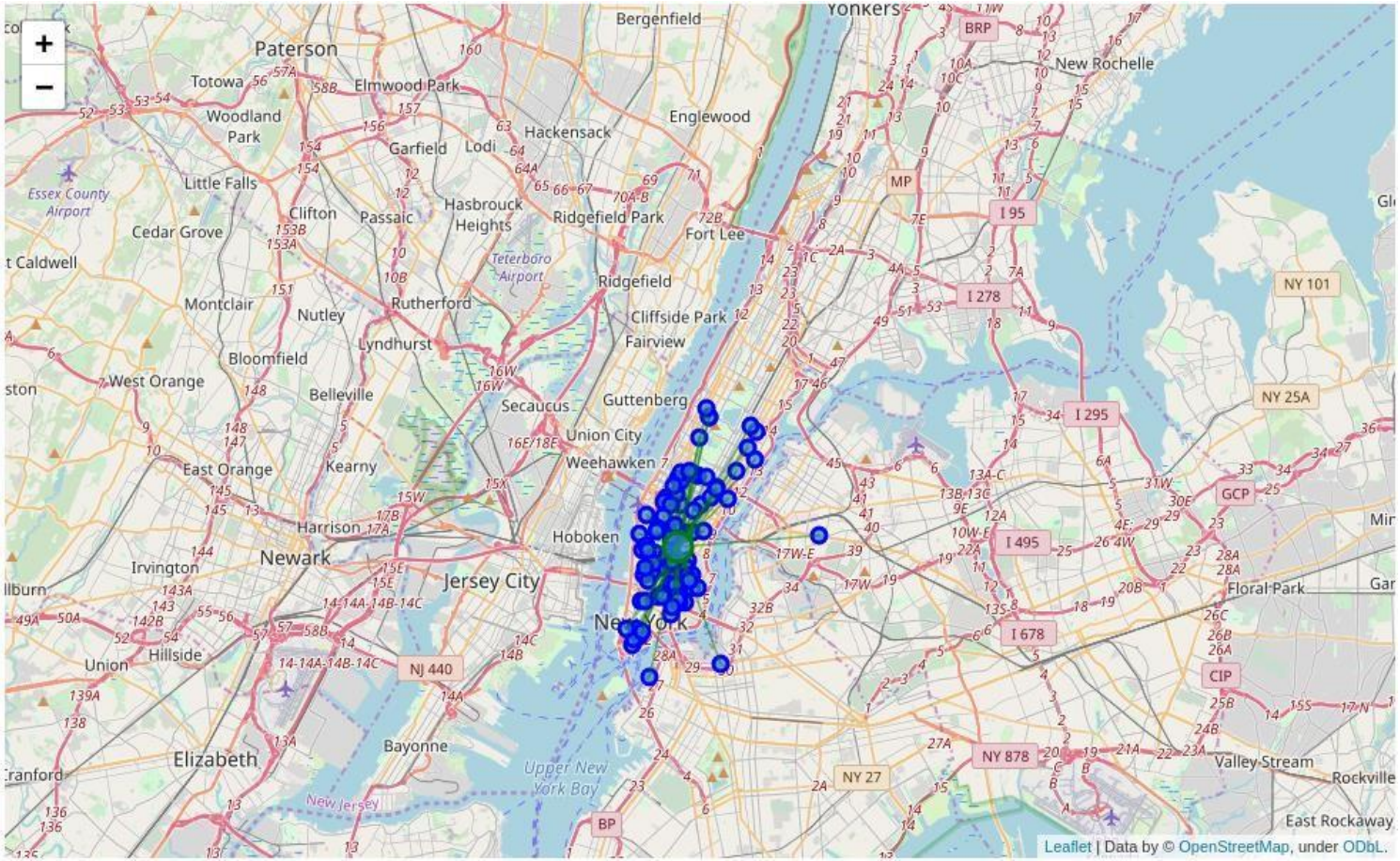
- The cities are: New York,NY, San Francisco, CA, Jersey City, NJ, Boston, MA and Chicago,IL

Methodology

- I try to find which city would have the highest Pizza store density.
- I used the near query to get venues in the cities. Also, I use the CategoryID to set it to show only Pizza Places.
- Foursquare limits us to maximum of 100 venues per query.
- I repeated this request for the 5 studied cities and got their top 100 venues
- Next, to get an indicator of the density of Pizza Places, I calculated a center coordinate of the venues to get the mean longitude and latitude values. Then I calculated the mean of the Euclidean distance from each venue to the mean coordinates

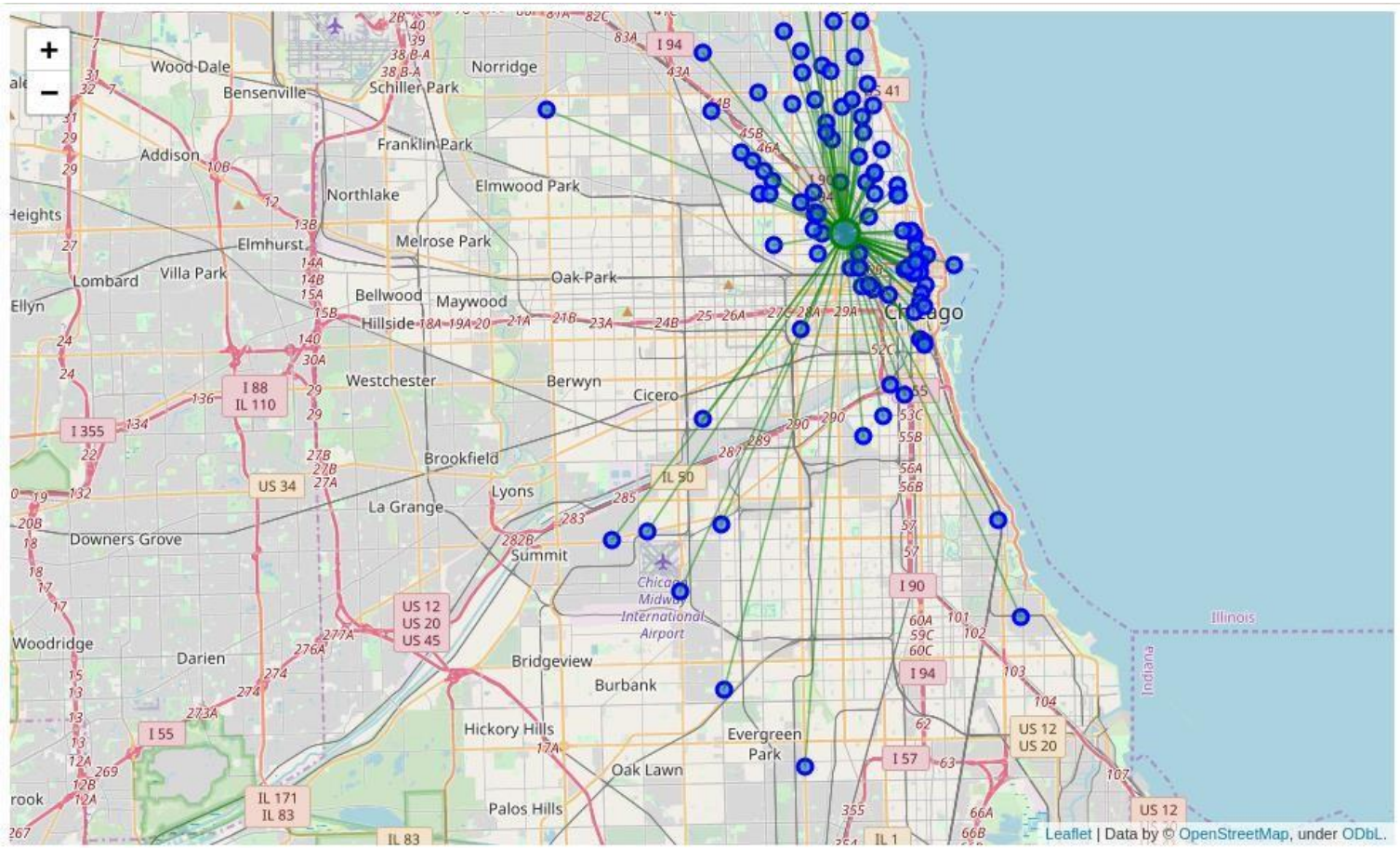
Results

New York:



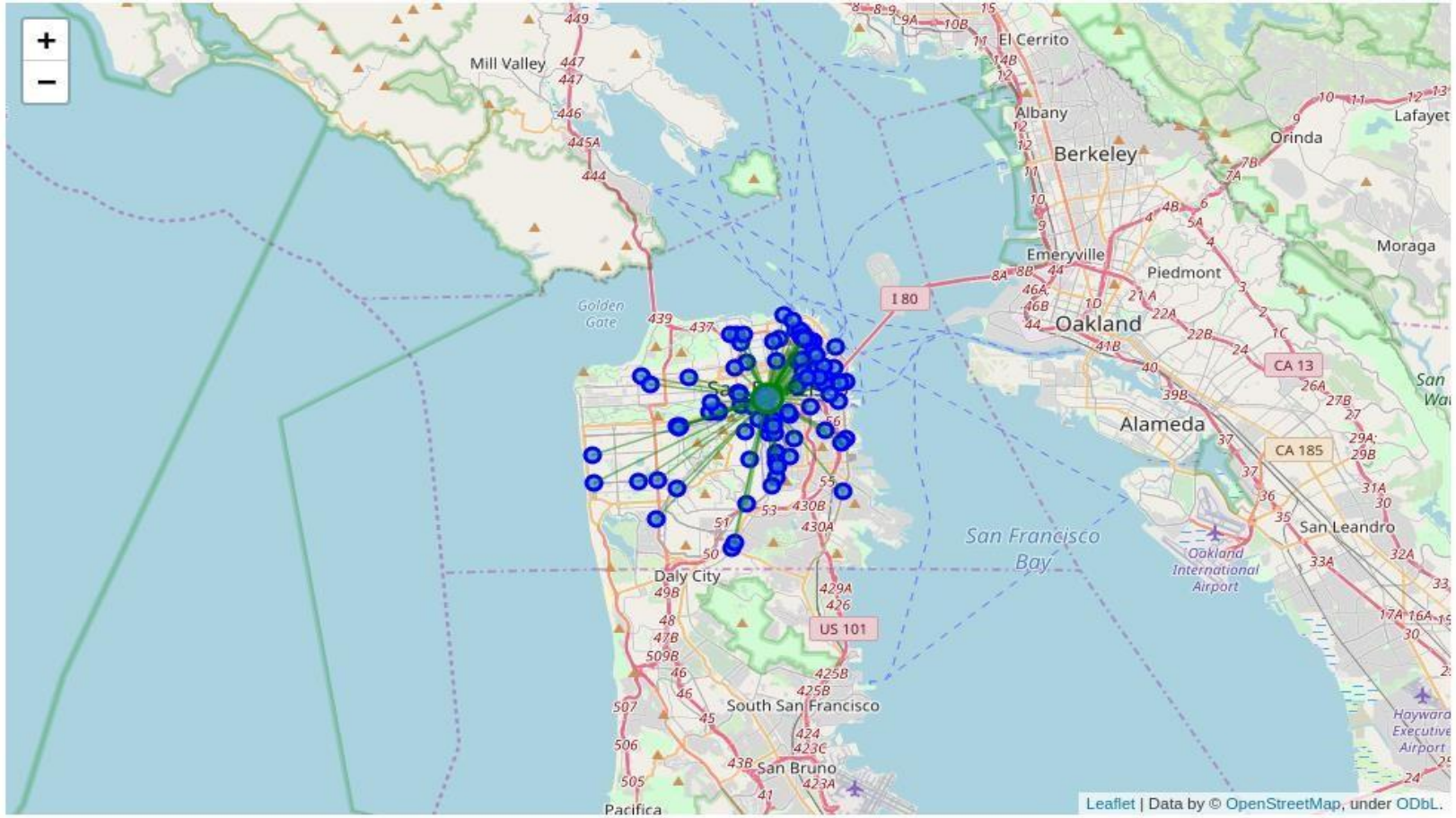
Results

Chicago :



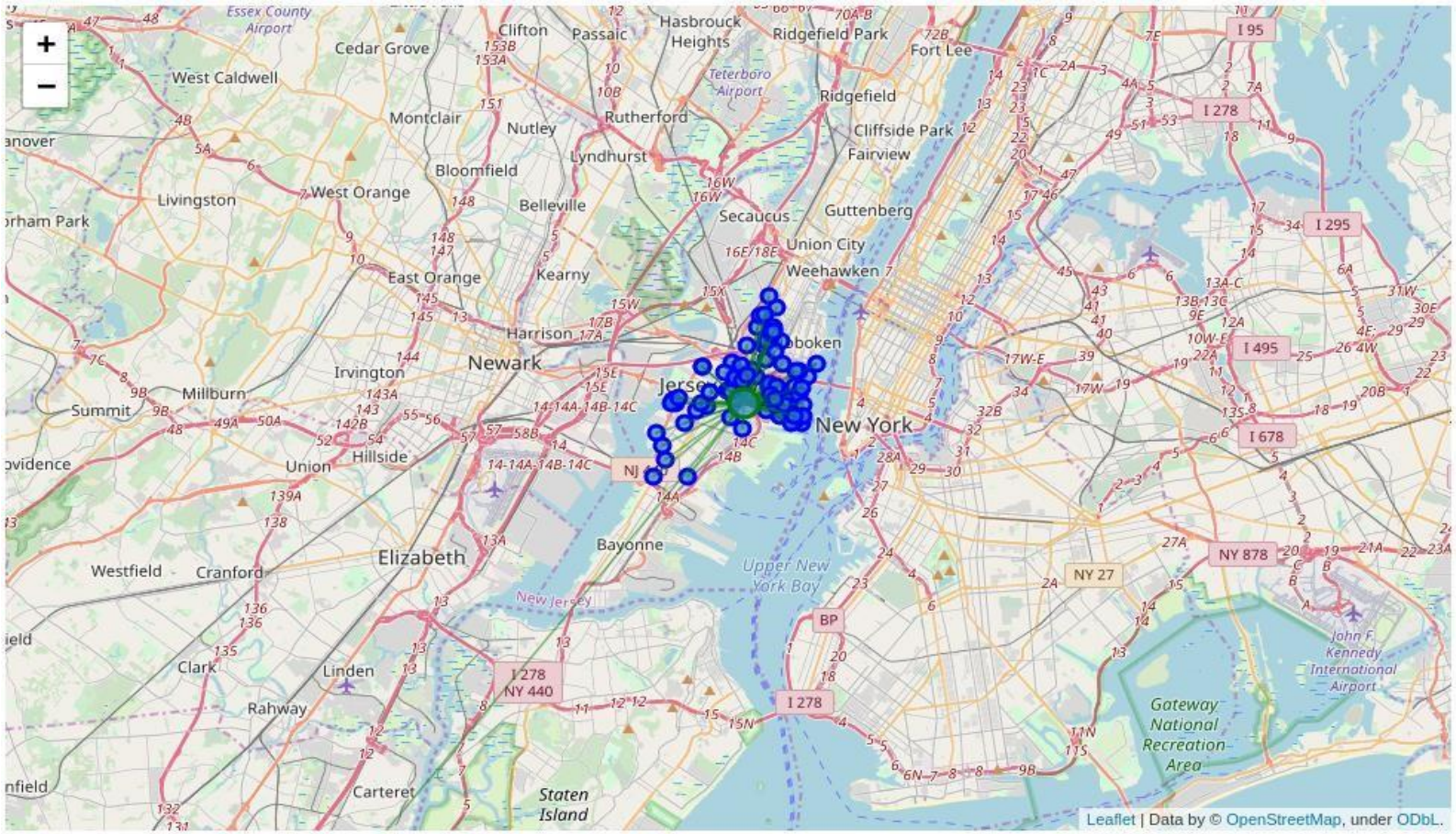
Results

- **San Francisco:**



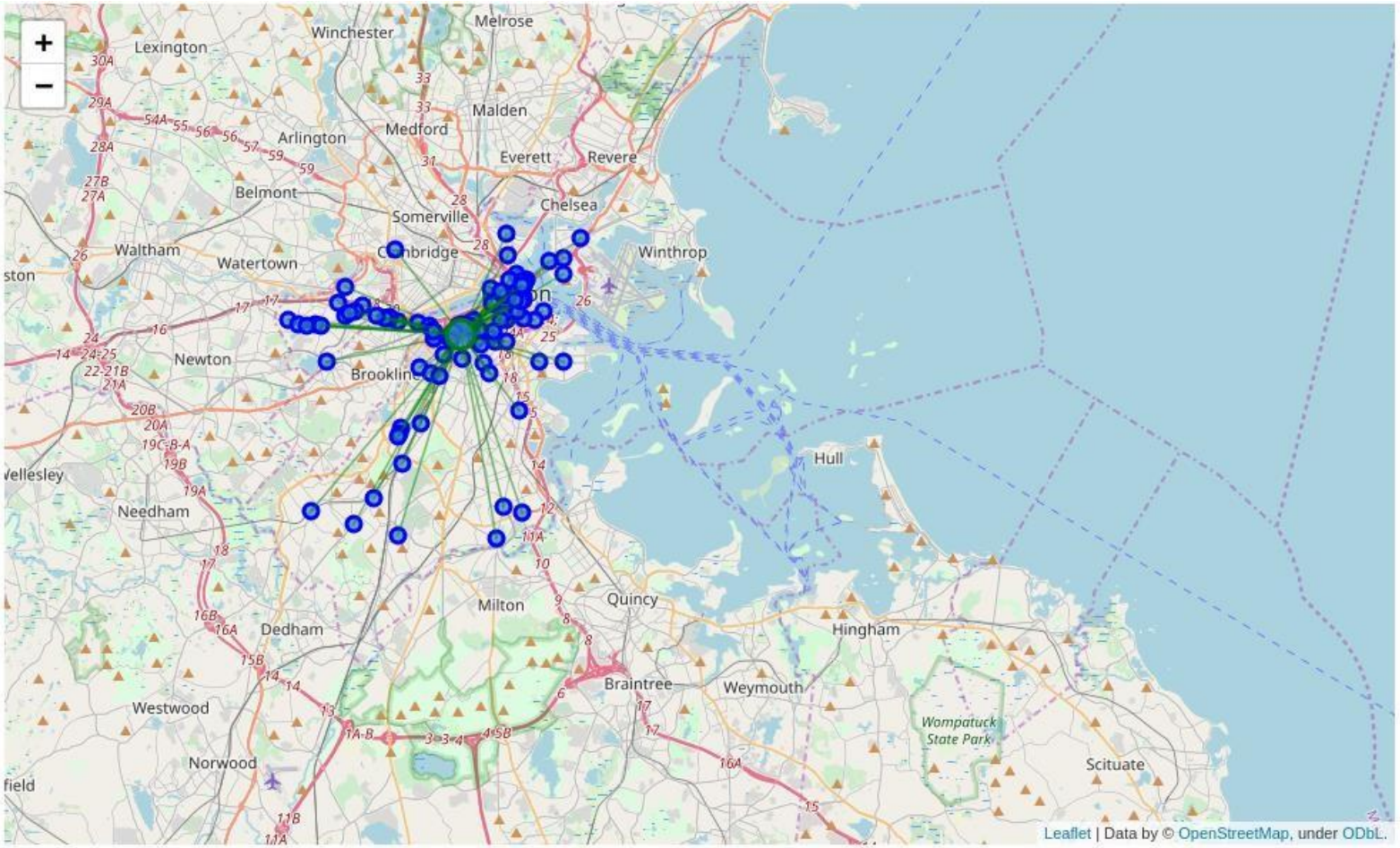
Results

- **Jersey City:**



Results

- **Boston:**



Conclusion

- There is a far away Pizza Store in Jersey City that is probably giving it a higher mean distance to mean coordinate.

- After removing it, Jersey City got one place higher replacing San Francisco.

- So, New York city and Jersey City are highly dense cities for Pizza places.