

The Best Location for Restaurants in Boston

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Introduction

Our goal is to find **the best location for restaurants in Boston**. Our target audiences are restaurant owners and people who are interested in opening restaurants and bars. There are some factors that we take into consideration, including traffic, medium income in the neighborhood, number of food permit nearby, safety, and the number of property in the neighborhood.

Datasets

We used **7 datasets from 3 different sources**, including MBTA, City of Boston, and the Hubway. For examples:

- ❖ The accurate addresses of all the food permits in Boston (2016).
- ❖ The number of crime happened in the neighborhoods (2012-2015).

We used **k-means** to find the **clusters** of all the properties, and found the **correlation coefficient** between location of crimes and location of restaurants.

Results

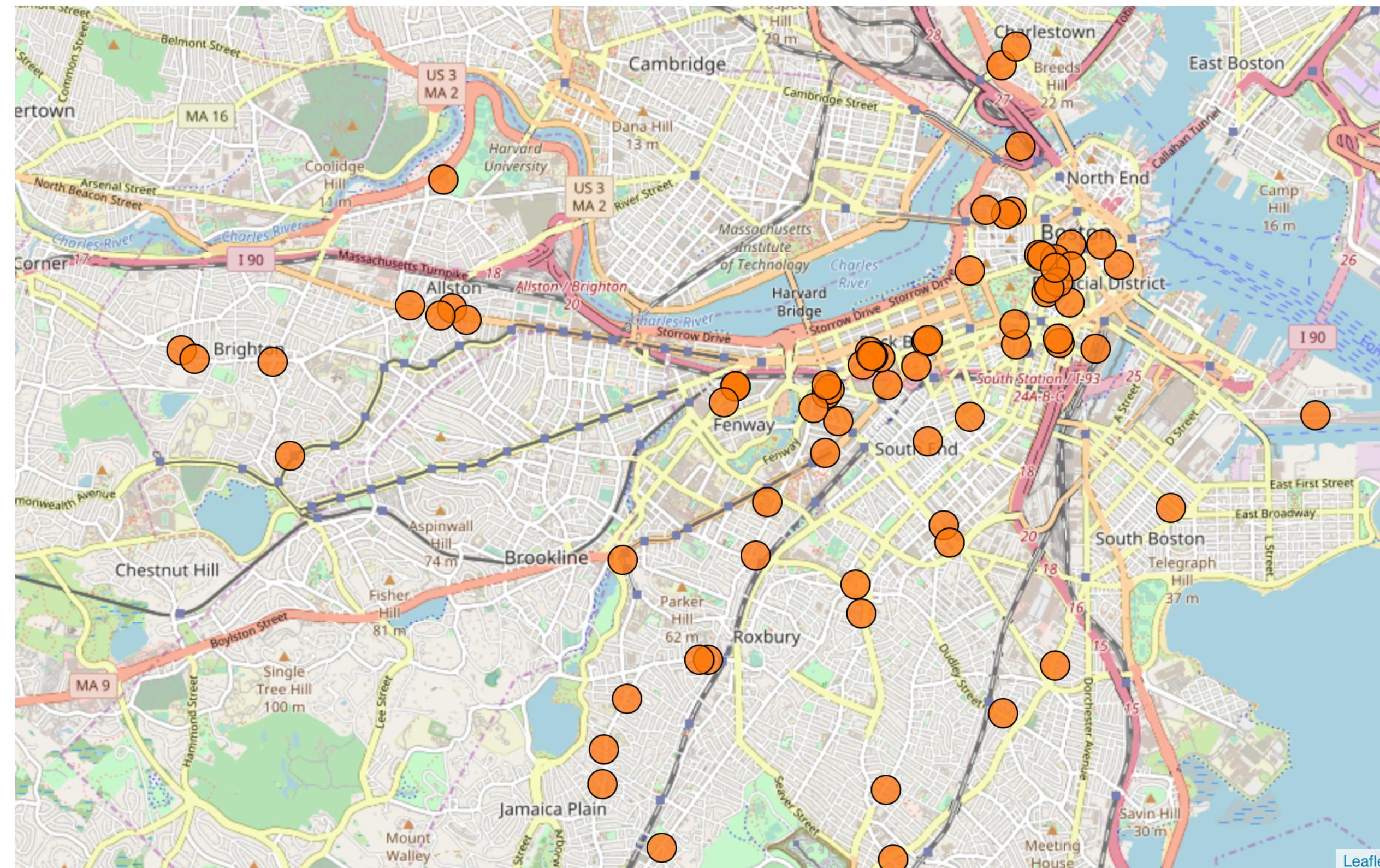


Figure 1: **Where to eat?** Popular locations of restaurants map

*The more dots are there, the more restaurants locate in the area.

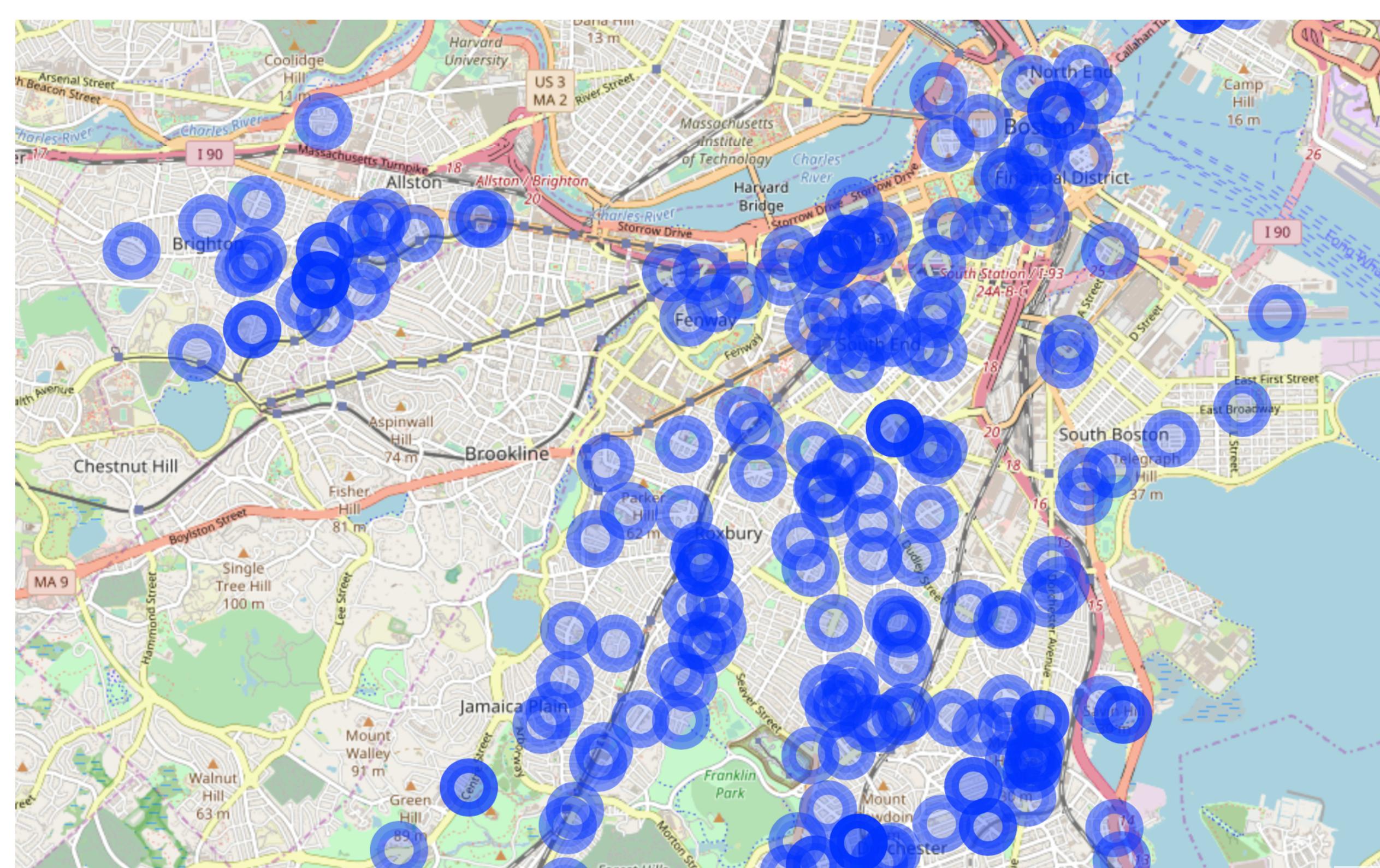


Figure 2: **Where to go?** High crime areas map

*The more dots are there, the more crimes happened in the area.

Conclusion

Our suggestions for picking a great location for a restaurant are:

1. The location needs to be **in the clusters**, which indicates a large number of properties and potential customers.
2. Always choose the **higher traffic area** regardless of the crime rate in the neighborhood, because people don't care when it comes to food.

Future Work

In the future, we can add more factors that would influence the decision on the location of a restaurant, like rent, distance to supermarkets, and parking lots. People can **customize the filters** to choose the best location based on their budget and what they want.

Sample filters

\$10000 /month > Rent + \$50000/year < Medium Income + > 2 T stops within 1 mi + parking lots YES