

Best City to enjoy Donuts



408



Explore 5 City- New York, San Francisco, Jersey City, Boston and Chicago and find which city is best for Donut and which location in that City

Introduction

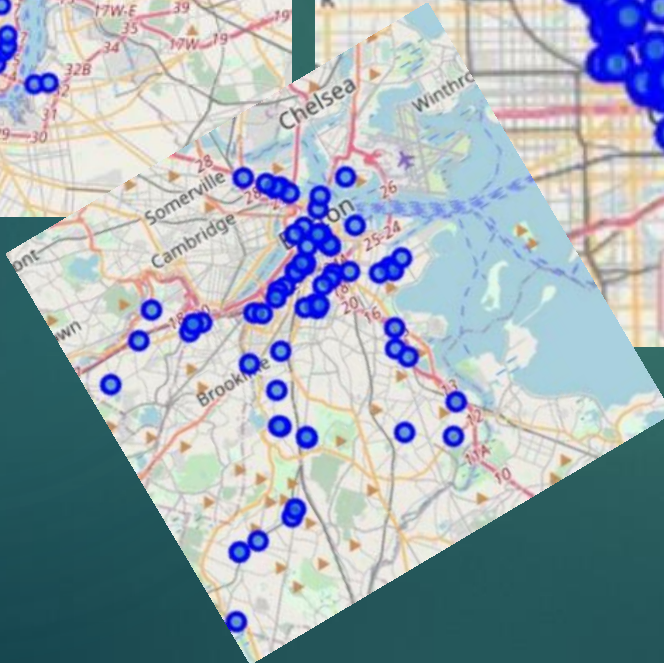
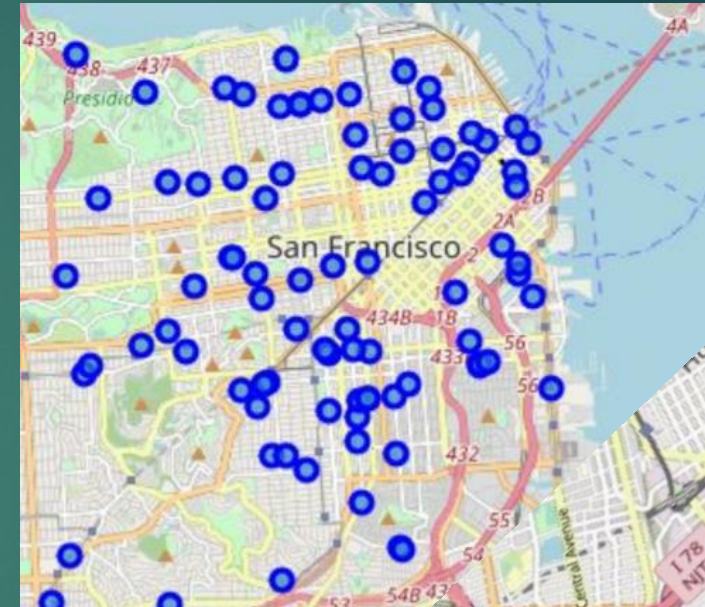
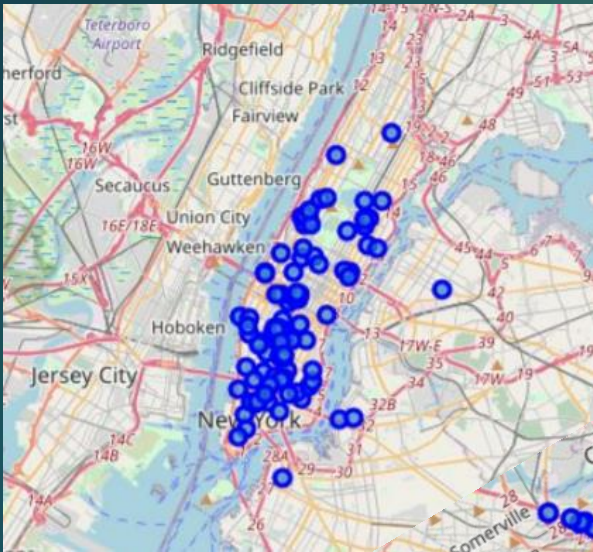
- ▶ Provide Tourist the best City and the exact location in the city based on their favourite delicacies to book hotels at the nearby location.
- ▶ Business Problem:
 - ❑ As a Tourist I would like to taste one of the finest delicacies of the USA i.e Donuts. So I would like to stay in a place with a high density of Donut shops around me.
- ▶ Success Criteria:
 - ❑ The success criteria of the project will be a good recommendation of the City and the exact location choice to Tourist based on their provided Delicacies, which will help them to book Hotel at the specified location.

Data Description

- ▶ FourSquare API will be used to collect data about locations of Donut Shops in 5 major US cities which are: New York,NY, San Francisco, CA, Jersey City, NJ, Boston, MA and Chicago,IL. The FourSquare API will provide us the Donut Shops for each city.
- ▶ We need to pass CLIENT_ID, CLIENT_SECRET , City and Category of Donut Shop.
 - url =
'https://api.foursquare.com/v2/venues/explore?&client_id={}&client_secret={}&v={}&near={}&limit={}& categoryId={}'.format(CLIENT_ID, CLIENT_SECRET, VERSION, city, LIMIT, "4bf58dd8d48988d148941735")

Analytical Approach- Methodology

- Explore the Donut shops in all 5 cities (These cities may be provided by the Tourist).



Result

- ▶ Find the mean co-ordinates of the city and then calculate the mean distance of each donut shop in the city.
- ▶ Based on the data: The best city the Tourist can plan,
 - New Jersey-(20 Shops)- Mean coordinates 0.017, Location [40.72, -74.05]
 - New York-(170 Shops)- Mean coordinates 0.025, Location [40.74, -73.98]

