



# Capstone Project

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*Today, we are interested in New York City as a pet haven. According to a blog on the Internet, New York residents own over an estimated 1 million pets while around 600,000 are dogs.*

**INTRODUCTION/BUSINESS PROBLEM 1**

*Since dogs are creatures which need to do exercises and walk around outdoors to be healthy, we are interested in looking for the best place to live as a dog owner in NYC. I would pick Brooklyn as the borough for investigation, because I like the fictional character Captain of America and Brooklyn was his home town.*

*This problem is particularly important for dog owners as picking a friendly neighborhood for dogs will be highly beneficial, i.e. parks, trails, waterfronts, etc.*

*<b>Here we are, we are going to answer the following question.*

*Which neighborhood in Brooklyn is suitable for petting dogs and therefore the best place for dog lovers to live in? </b>*

## **INTRODUCTION/BUSINESS PROBLEM 1**

*Please read the notebook for more details.*

**DATA**

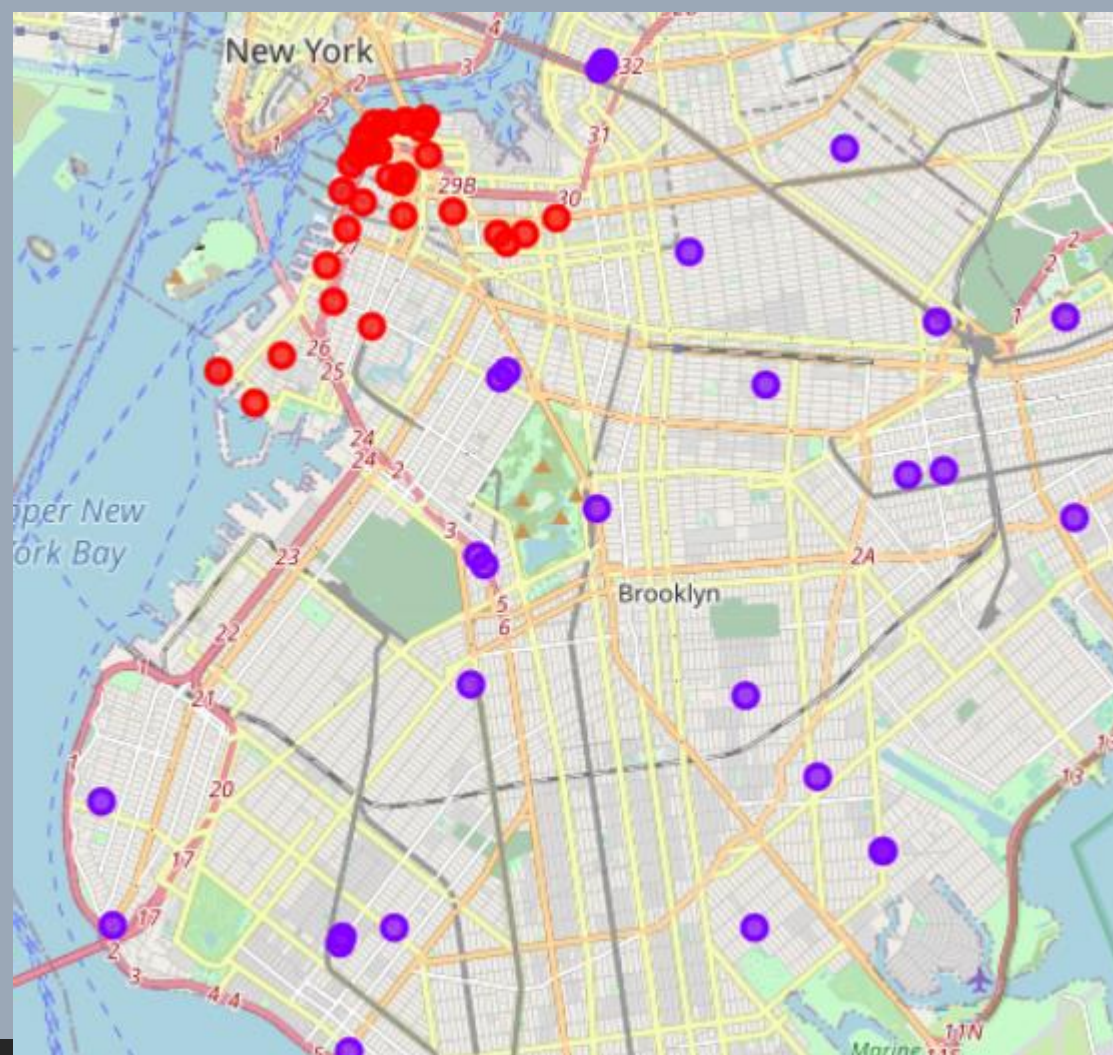
*We are now trying to identify which kind of places are suitable for petting dogs. As said, when I study the data in Manhattan and Brooklyn, I have identified good choices such as 'Dog Run', 'Park', 'Pet Café', 'Pet Service', 'Pet Store', 'Waterfront', 'Trail'. We will use two approaches. First one we just simply use pivot tables, and the second one we will use clustering technique.*

## **METHODOLOGY**

*Both methods (pivot table and clustering) help us to identify places suitable for petting dogs, but clustering will be of greater use and provide more useful results.*

## **RESULTS, DISCUSSION AND CONCLUSION**





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