Data Science project Report

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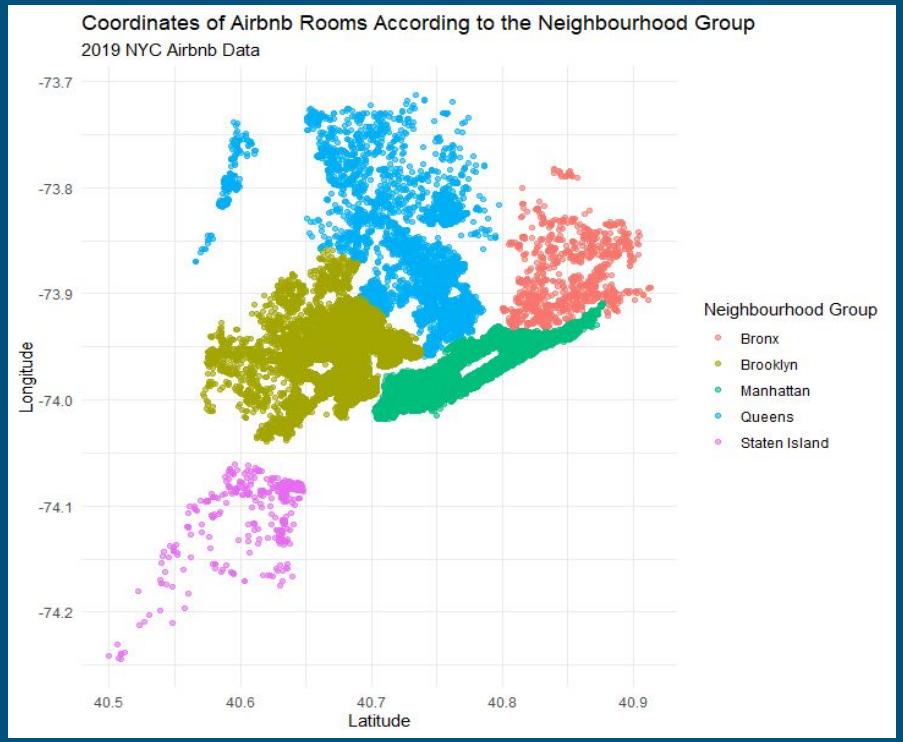
About The DataSet

The listing activity and metrics in NYC for 2019 are described in this AirBnB NYC dataset. It contains all the data required to learn more about the hosts, costs, geographic accessibility, and information required draw inferences for NYC. The dataset **consists of 16 columns and 48,895 rows.** The information utilized for this assignment comes from Kaggle and is referred to as New York City Airbnb Open Data.

Visualizations and Insights

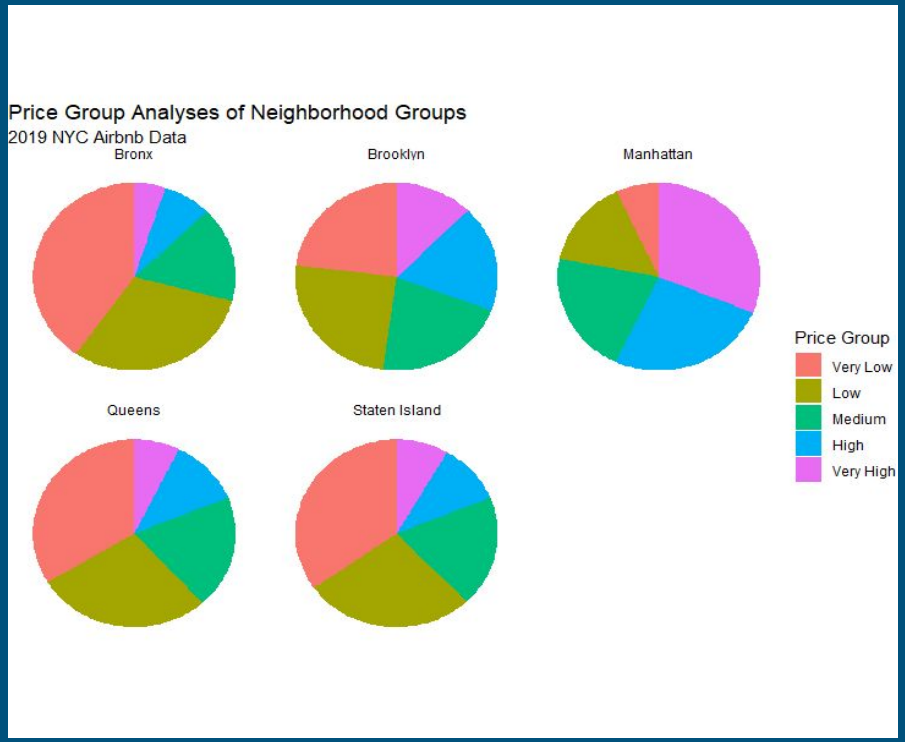
Density of Different Neighborhood Groups using Room Coordinates



Inference:-

Staten Island and the Bronx have fewer rooms than the others. In their respective regions, Brooklyn and Manhattan have evenly dispersed and balanced room densities.

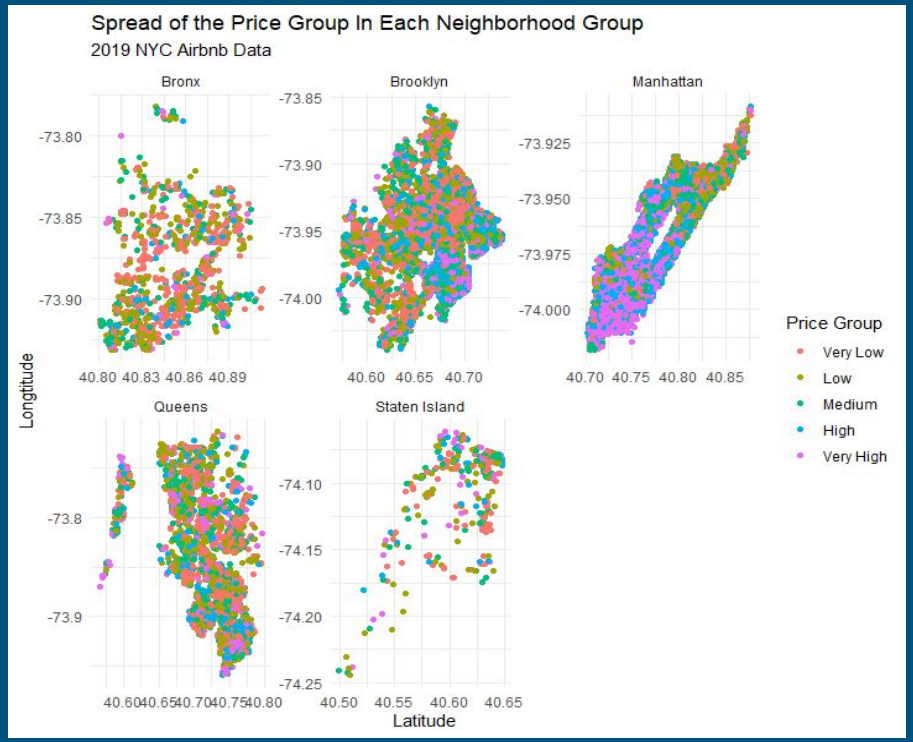
Price Group Analyses of Neighborhood Groups



Inferences:-

- Most accommodations in the Bronx, Queens, and Staten Island are quite inexpensive.
- In Brooklyn, the percentages of rooms with extremely low, low, and medium prices are nearly similar.
- In Manhattan, the extremely high price range has a higher percentage than the other price ranges.

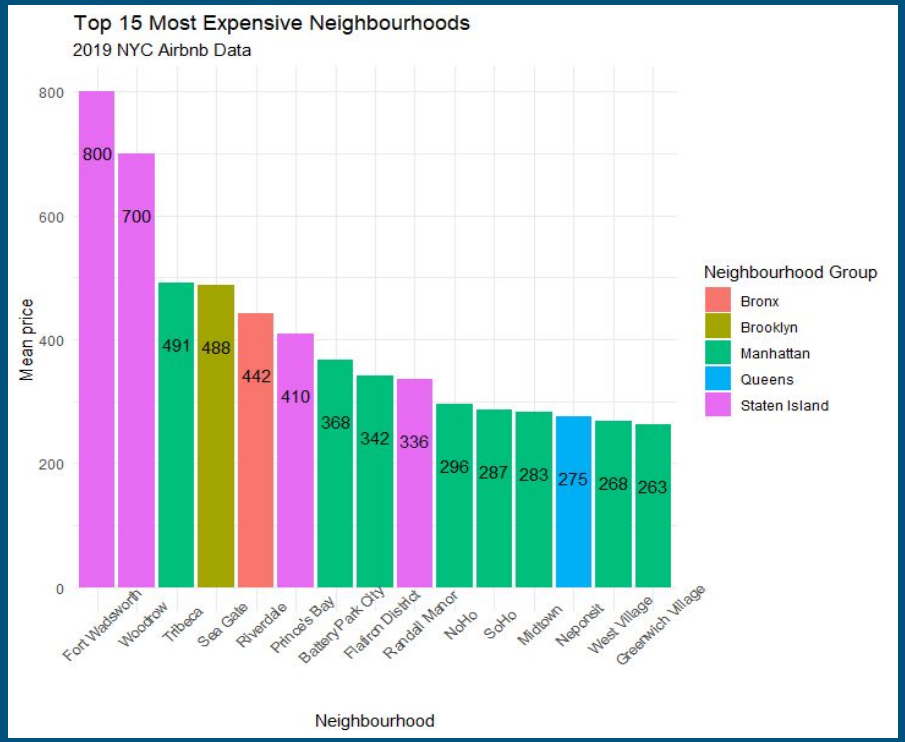
Spread of price groups in each Neighbourhood Group



Inference:-

We observe that very high price groups in Manhattan concentrate in a particular area, although there is a homogeneous spread of price groups in Bronx, Brooklyn, Queens, and Staten Island.

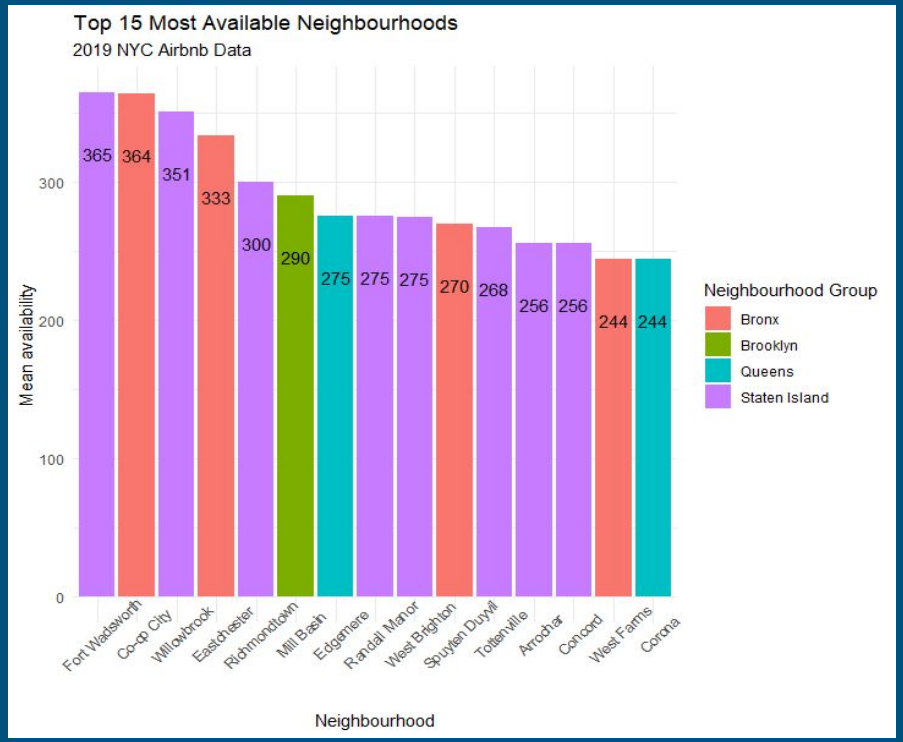
The Most Expensive Neighborhoods



Inference:-

The most expensive neighborhood is **Fort Wadsworth** with the average price **$800.** The other inference obtained from the bar chart is that the most expensive rooms are located in **Manhattan and Staten Island.**

The Most Available Neighbourhood Groups



Inference:-

By using average availability of the rooms, the graph shows that **Staten Island** is the most available neighborhood group in the top 15. **Manhattan**, on the other hand, **does not have any neighborhood in the top 15.**

This Airbnb dataset for the 2019 year appeared to be a very rich dataset with a variety of columns that allowed us to do deep data exploration on each significant column presented and derive gainful insights.

Thank You