



# The Best Location In New York And San Francisco

## Abstract:

The goal of this project is to analyze exploratory data about the best selection of housing units in New York and San Francisco, with the aim of opening more housing units in New York and San Francisco, with the aim of open an increase in apartments in the best areas and increasing their profits.

## Design:

Design: This project built from our company needs to increase their sales Data is provided by New York and San Francisco data Our team uses New York and San Francisco Airbnb data to determine the best location to build housing units in NYC and San Francisco City in order to have a large number of best locations in tow states Next, our team used the results of our analysis to determine the best locations for market company

## Data Description:

We used the "Analysis of NYC and SF Airbnb Data" Dataset from Kaggle:

- New York City Airbnb Data: the dataset has 48895 numbers of rows and 16 numbers of feature/columns
- San Francisco City Airbnb Data: the dataset has 8111 numbers of rows and 106 numbers of feature/columns.

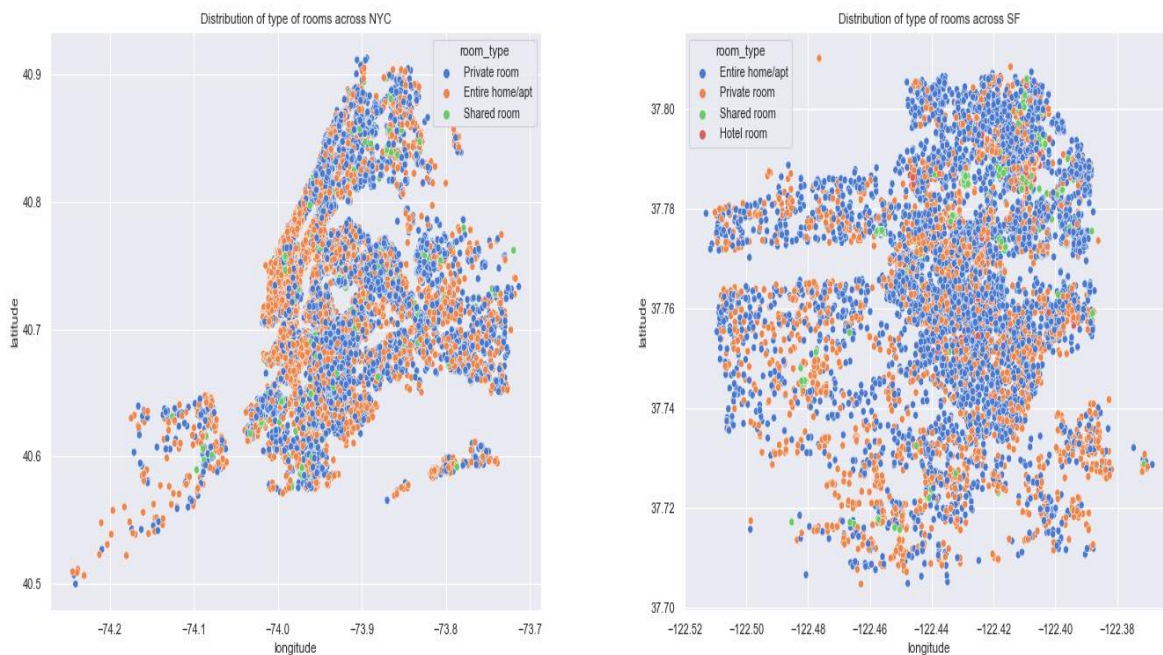
## Algorithms:

- Compering between types room and price for each state
- Visualized the resulted clean data
- A lot of missing values were found we decided to remove all missing valued because the data for the missing value not important to analysis.
- No duplications were found in the dataset.

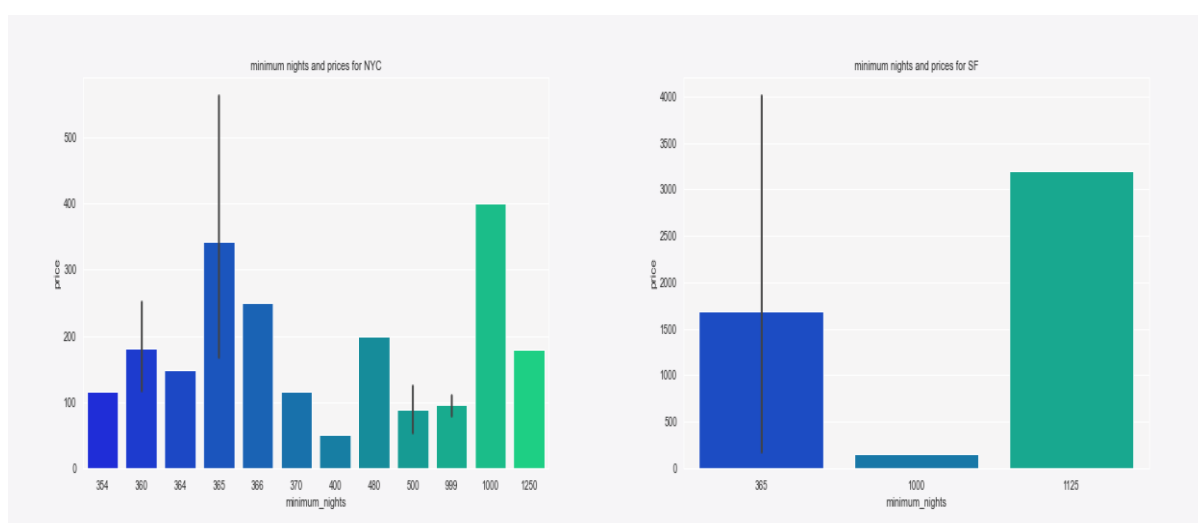
## Tools:

- Technologies: SQL,SQLite Python, Jupyter notebook.
- Libraries: NumPy, Pandas, Matplotlib, seaborn, Missingno, Matplotlib.pyplot.

## Communication:



- By the two scatterplots of latitude vs longitude, we can infer there's is very less shared room throughout NYC and SF as compared to private and Entire home/apt. 95% of the listings on Airbnb are either Private room or Entire/home apt. Very few guests had opted for shared rooms on Airbnb during our observations, guests mostly prefer this room types when they are looking for a rent on Airbnb.



- During our comparison between the minimum nights and prices, we noticed that the rooms are reserved for a longer period receive a lower price. as shown in the chart.