Exploring Airbnb's price for various listings in the neighborhood of New York city

Amrutha Veena | 06-19-2020

INTRODUCTION

Airbnb, Inc. is an American online marketplace company based in San Francisco, California, United States. Airbnb offers arrangement for lodging, primarily homestays, or tourism experiences. It is common nowadays for people to book stays in different cities for many purposes including holidays, business meetings etc.

Often tourists and travelers have problem in identifying the best stay that accommodates their budget as well as a place that is near to many popular venues in the city they are visiting. This project aims at classifying the different price listings of Airbnb in the neighborhood of New York city. New York city has a total of five boroughs and at least 150 neighborhoods. We will be using the New York city's geospatial data and the Foursquare API to explore the most popular venues in New York city and the corresponding Airbnb's price listings in that neighbor hood and categorize the prices as HIGH_RANGE, MID_RANGE and LOW_RANGE.

DATA

For this project we will be using the FourSquare API data along with the Airbnb's(https://www.kaggle.com/dgomonov/new-york-city-airbnb-open-data) open data of it's price listings in the neighborhood of New York city. The data consists of 16 columns describing the listings, price, neighborhood, number of reviewers, ratings and so on. Using the above data along with the FourSquare API , we can explore the various venues near a particular listing thus helping the user to decide as to whether the price for the listing is worth or not.