

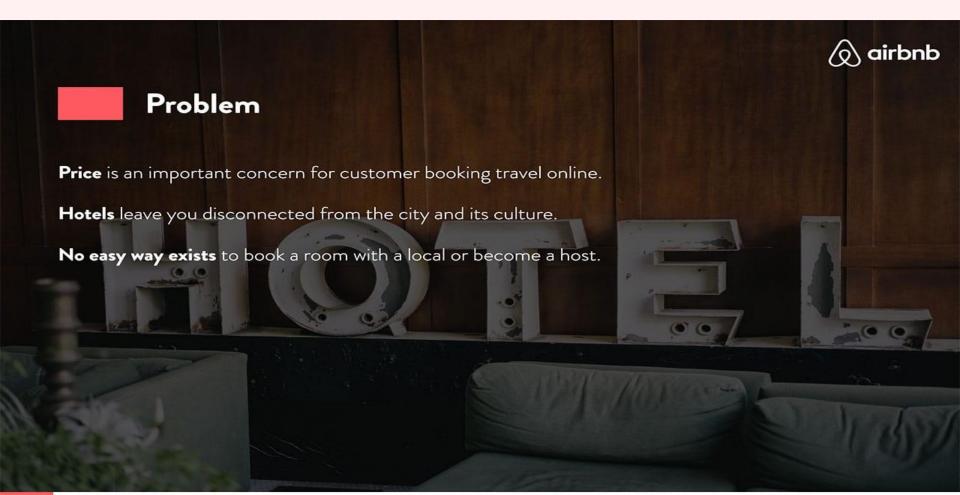
# Capstone Project-01 AirBnb Booking Analysis by Mrutyunjaya Sahoo



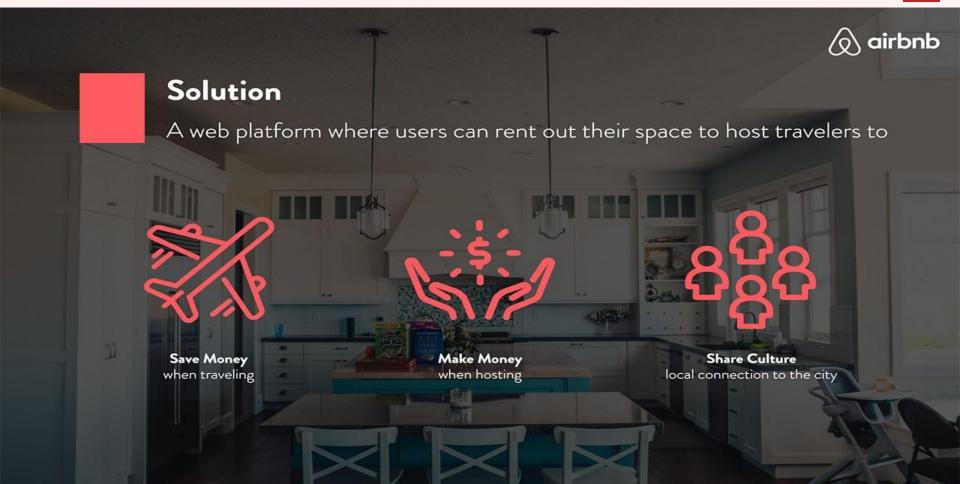
### What is AirBnb?

- •Airbnb is an online community marketplace that connects people looking rent their homes with people who are looking for accomodation.
- •Founded in an Francisco in 2008 as a start-up, the company has become a worldwide booking platform.
- •Today it contributes the more than 60 million people in 192 countries















craigslist.com

670,000 TOTAL USERS couchsurfing.com

17,000 TEMPORARY HOUSING LISTINGS

In SF & and NYC from 7/09 to 7/16











Trips Booked (WorldWide) Total Available Market



**Budget&Online**Serviceable Available
Market



Trips w/ AirBnB

Share of Market

15% Available Market

<sup>\*</sup>source: Travel Industry Assn. of America and World Tourism Organization.

<sup>\*\*</sup>source: comScore



### CONTENT:

- Introduction
- Overview of the dataset
- Data cleaning
- Exploratory Data Analysis
  - Observation
- Conclusion



### INTRODUCTION



Airbnb is an open online platform where people list their own housing for rent. Since 2008, it has grown in popularity and specially for those community which frequently use to travel. It is becoming a strong competitor to the hotel industry. It has millions of listing, which generate lots of data. I'm analyzing these data for making business decision, for looking best room type etc.



### **Overview of the Dataset**

# 16 Columns

&

48895 Rows



### **Column Information**

- id: Unique Id.
- name: Name of listing.
- host\_id : unique id for each listed host.
- host\_name: Name of the host.
- neighbourhood\_group : Location
- neighborhood : Area
- latitude : Latitude coordinates
- longitude : Longitude coordinates



### **Column Information**

- room\_type : Type of listing
- price : Price of listing
- minimum\_nights: minimum nights to be paid for rooms
- number\_of\_reviews : No. of reviews
- last\_review : Content of the last review
- reviews\_per\_month : Number of checks per month
- calculated\_host\_listings\_count : Total count of hosting list
- availability\_365 :Availability around the year



### **Data Cleaning**

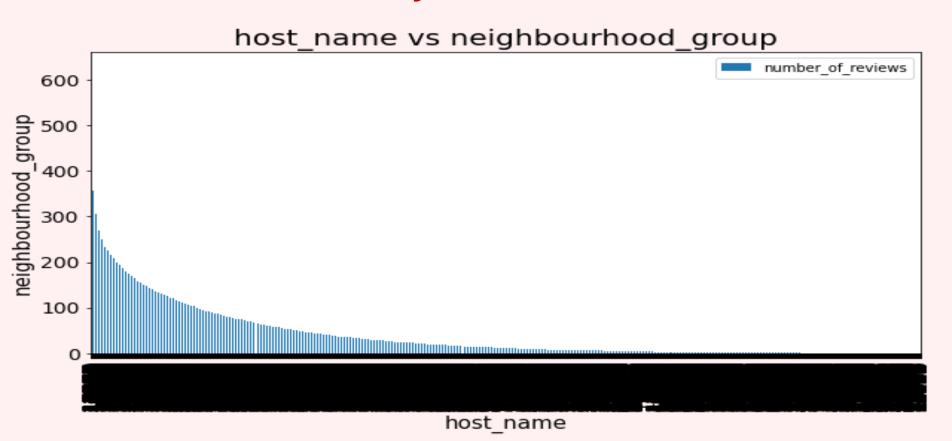
```
id
name
host_id
host_name
neighbourhood_group
neighbourhood
room_type
price
minimum_nights
number_of_reviews
calculated_host_listings_count
availability_365
dtype: int64
```



# **Exploratory Data Analysis**

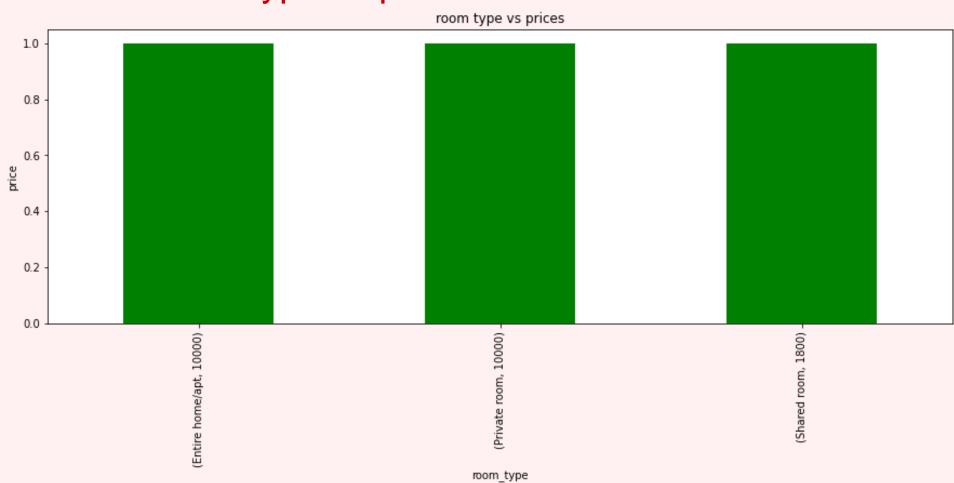


### host vs location analysis:



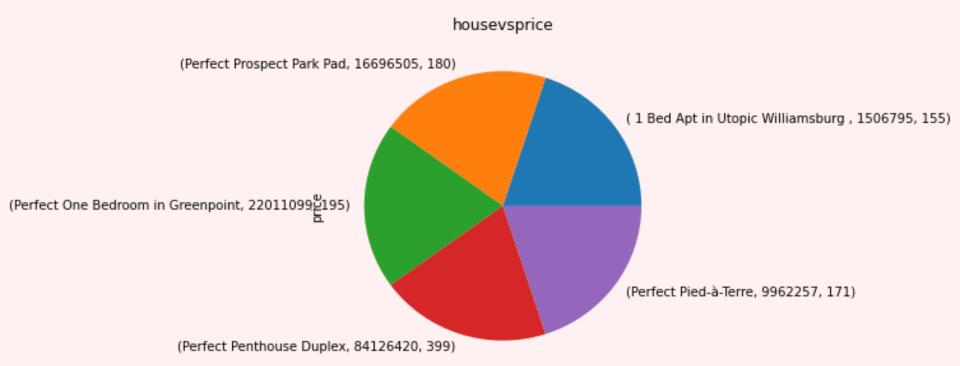
### different room type vs prices





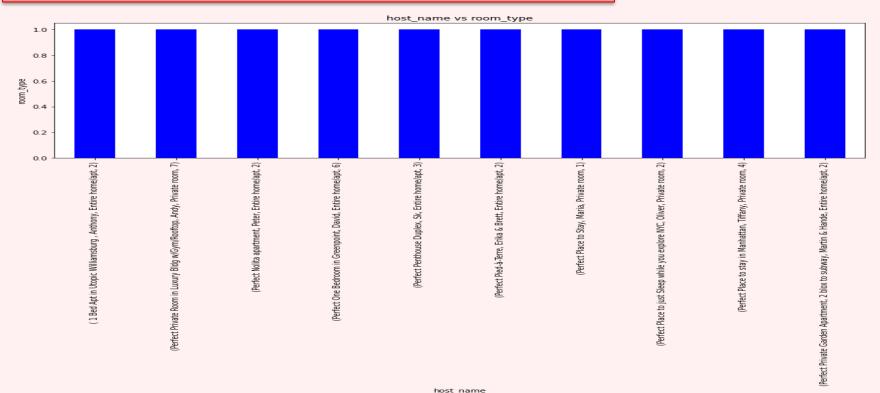


### house vs price



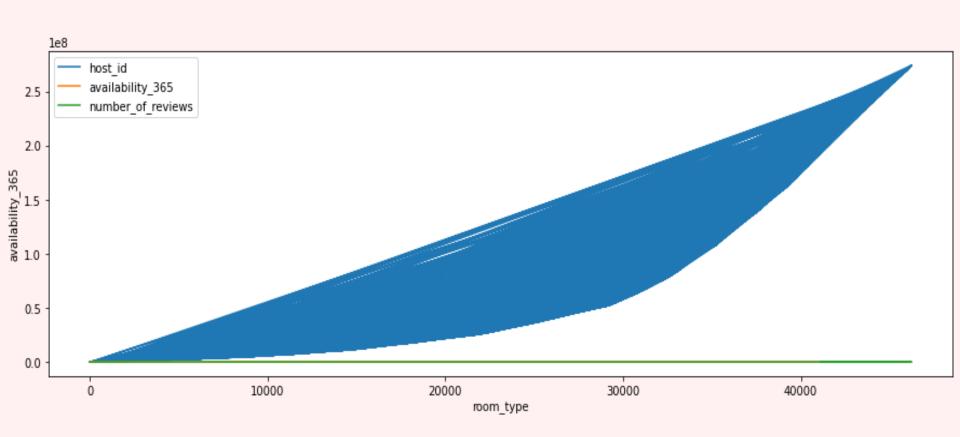


# who has hosted different room type with respect of minimum nights



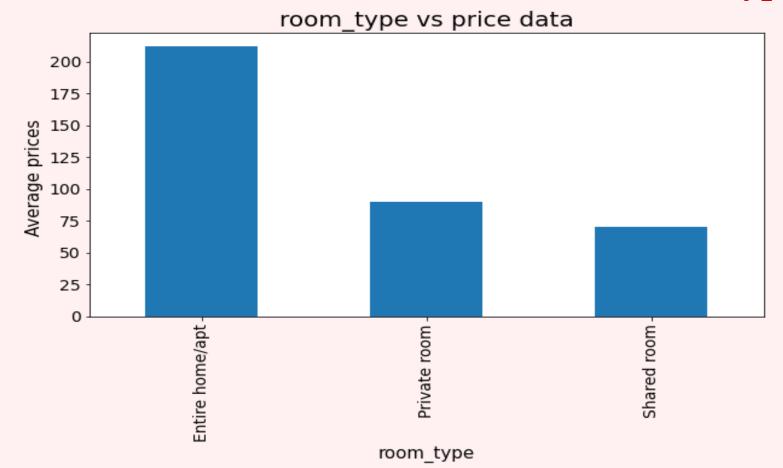


### room\_type vs availaility based on number of reviews



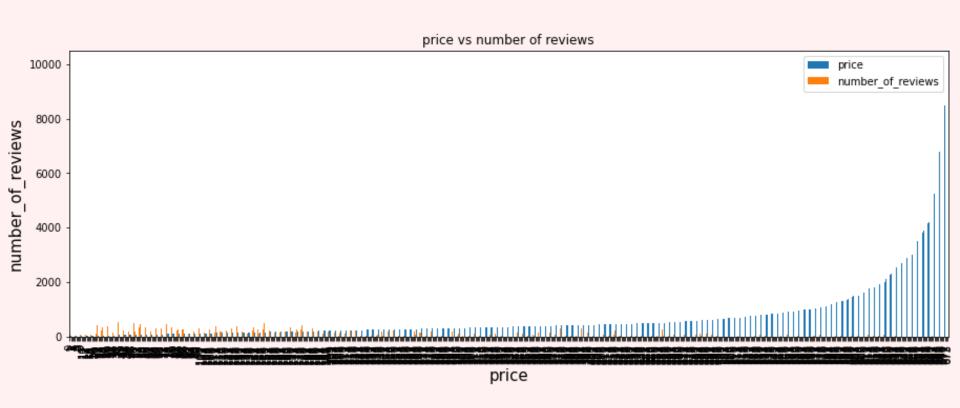


### Comparing Average house prices for different room types





### price vs number of reviews



### **Heatmap Discussion**



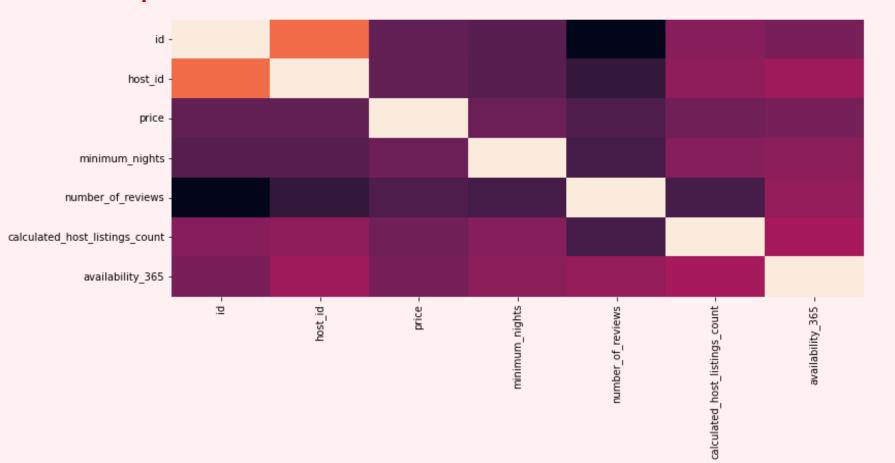
- 1.0

- 0.8

- 0.6

- 0.2

- 0.0





## CONCLUSION



### **THANK YOU!**