Capstone Project Submission

Instructions:

i) Please fill in all the required information.

ii) Avoid grammatical errors.

Team Member's Name, Email and Contribution:
Nitin Kumar (nk7606178@gmail.com) • Data Wrangling • Map visualization • No. of apartments in different neighbourhood_groups • Price of apartments varying in different neighbourhood groups • Percentage of room types in every neighbourhood groups • Prices of room types in different neighbourhood group individually • Comparing the prices of room types for different neighborhood groups • Room type people prefer the most for staying • Neighborhood Group which got the most no. of visitors • Correlation between price, minimum nights & no. of review • Availability of rooms in different 'neighbourhood_groups' Yearly • Availability of different types of room Yearly • In which year Airbnb recieves the most no. of reviews • Which year brought the most no. of visitors • Price fluctuation of each room type around the year • Which room types people prefer around the different months • Most no of active host in different neighbourhood group
Please paste the GitHub Repo link.

Github Link:- https://github.com/NitinKumar4338/Airbnb-data-analysis

Drive Link:
https://drive.google.com/drive/u/0/folders/1g8u38V1wYaawSYAdUBdmjxukrDaRZBuU

Please write a short summary of your Capstone project and its components. Describe the problem statement, your approaches and your conclusions. (200-400 words)

Airbnb, Inc. is an American company that operates an online marketplace for lodging, primarily homestays for vacation rentals, and tourism activities. In this EDA project I was provided the csv file of Airbnb which consisted of 5 neighbours in New York which are Manhattan, Brooklyn, Queens, Bronx & staten Island which consists 49,000 rows & 16 columns.

The 1st step we took was to import the libraries necessary of EDA like NumPy, Pandas, Matplotlib, Seaborn & Folium. After this we moved forward to Data wrangling for cleaning the data, Removing null values, Changing Datatype, fixing invalid data, outliers handling.

Now the data is ready to discover key understanding like no of apartments in every neighbourhood, percentage of room types, price of apartments in every neighbourhood, comparing the price of room types, room type people prefer the most, who got the maximum visitors, correlation of price,minimum nights & no of reviews, availability of rooms in each neighbourhood yearly, which year brought most no of visitors, price fluctuation of room type around the year, room type people prefer around the different months, most no of active host in different neighbourhood group.

Through Exploratory Data Analysis of this dataset we brought many conclusion & key key understanding about the three different room types, all the five neighbours, ustomer preference, performance of hosts & many more which will help the company in taking futuristic decision.