

## **Capstone Project Submission**

### Instructions

- Please fill in all required information
- Avoid grammatical errors

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Please Paste Github repo link below

<https://github.com/Nileshkl/Capstone-Project-EDA-Airbnb>

Please write a short summary of your Capstone project and its components. Describe the problem statement, your approaches and your conclusions. (300-500 words).

## **Airbnb Bookings Analysis**

### **Summary:**

The NYC Airbnb project is a comprehensive analysis of the Airbnb market in New York City. It involves gathering and analyzing data related to Airbnb listings, hosts, and guests in order to gain insights into the trends, patterns, and impacts of short-term rentals in the city. The project aims to provide a better understanding of the Airbnb market in NYC and its implications for the housing market, tourism industry, and local communities.

### **Key Objectives:-**

**Data Collection:** The project involves collecting data from various sources, including the Airbnb platform, publicly available datasets, and other relevant resources. This data includes information about listings, hosts, pricing, occupancy rates, and geographical distribution.

**Data Analysis:** Once the data is collected, it is analyzed to identify key trends and patterns in the NYC Airbnb market. This analysis may include examining factors such as listing types, property locations, rental prices, guest reviews, and host characteristics.

**Impact Assessment:** The project aims to assess the impact of Airbnb on the local housing market, tourism industry, and communities. This involves studying the effects of short-term rentals on rental prices, housing availability, neighborhood dynamics, and the overall economy.

**Policy Recommendations:** Based on the findings of the analysis, the project may provide recommendations for policymakers and relevant stakeholders. These recommendations may address issues such as housing affordability, regulation of short-term rentals, taxation, and community engagement.

**Visualization and Reporting:** The project may involve creating visualizations, infographics, and reports to present the findings in a clear and accessible manner. These materials can help stakeholders understand the complexities of the NYC Airbnb market and make informed decisions.

Overall, the NYC Airbnb project aims to provide a comprehensive understanding of the Airbnb market in New York City and its impact on various aspects of the city's economy and communities. The project's findings and recommendations can inform policy decisions, facilitate informed discussions, and contribute to the ongoing debate surrounding the regulation and management of short-term rentals in NYC.

## **Conclusion:**

The 2019 Airbnb NYC project aimed to provide a thorough analysis of the short-term rental market in New York City. With a dataset containing various attributes of Airbnb listings, we gained valuable insights into industry trends and patterns.

The dataset consisted of unique listing IDs, names, and host IDs, allowing us to understand the distribution of listings and host involvement. Location information, including the neighbourhood group and specific neighbourhood, provided insights into popular areas and the concentration of listings across the city.

Room types analysis revealed the diversity of accommodations available, such as entire homes, private rooms, and shared rooms. Pricing analysis helped identify areas with higher-priced accommodations and understand the factors influencing pricing decisions. Minimum nights data offered insights into host preferences and guest demand for longer stays.

Review metrics, including the number of reviews and the last review date, provided valuable indicators of listing popularity and performance. The calculated host listings shed light on hosts with multiple listings, indicating the presence of professional hosts.

The availability 365 attribute helped understand the seasonality of the market and periods of high demand and low availability.

In conclusion, the 2019 Airbnb NYC project provided a comprehensive analysis of the short-term rental market in New York City. The insights gained from attributes such as location, room types, pricing, reviews, and availability can inform decision-making for hosts, guests, policymakers, and researchers, offering a deeper understanding of the impact of short-term rentals on the city.