**EDA on Airbnb Dataset**

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| **Bhoomika**  Email : bhoomikadayal@gmail.com  Project Contribution :   * Data Wrangling – Handled Null Values, * Plot Distribution of numeric features * Plot correlation matrix * Plot location, analysis by variation of price * Analysis against Neighborhood Group * Analysis against reviews * Limitation in scheme in Airbnb * Scope of improvement * conclusion |
| **Drive Link : -** [**https://drive.google.com/drive/folders/1v54AskpyYZuyLizz431bqb3UltbiUQS5?usp=sharing**](https://drive.google.com/drive/folders/1v54AskpyYZuyLizz431bqb3UltbiUQS5?usp=sharing)  **Git Hub Link :-** <https://github.com/Bhoomikadayal/Cohort-Chario-EDA-Capstone-Project> |
| **Project Summary** |
| Airbnb is an American Company since 2007, it is an online marketplace that connects people who want to rent out their homes with people who are looking for accommodations in specific locales.  We have our dataset from AirBnb based in NY. NY is amongst the most expensive places to live in the USA. We would like to perform an in-depth analysis on one of the most densely populated cities of the world. Our dataset is feature rich containing, location with co-ordinates, prices, host name, room types, availability throughout season. From these features we’ve tried to extract information like most expensive places to live in NY, is location really varies with occupancy rate, what type of room people tend to choose most, is there any particular season for tourists or locale when we can follow a surge in prices or occupancy rate of properties etc.  We have performed data wrangling, handled n/a values, created new features from the last reviewed date. Also, we’ve plotted location wise data and distribution of our numerical features, performed univariate and bivariate analysis with multiple dependencies. Though we haven’t handled outliers in our analysis, we also focused on neighborhood groups or large areas of NY rather than small neighborhoods. We weren’t able to perform sentiment analysis or property quality analysis due to the lack of data, but can conclude that Manhattan and Brooklyn are some of the most expensive areas of NY. People live a lavish life and tend not to prefer shared rooms even if shared rooms are cheaper. We can understand in the middle of the year there is a surge in occupancy rate. Also, location has a high relation on deciding a property price but that doesn’t mean property in popular locations will stay occupied for most of the season. |