## Introduction

This undertaking project investigates the main characteristics that differentiate regular hosts from superhosts on airbnb. To be considered as superhost, a host has to satisfy these criteria:

- Minimum 10 trips to be hosted
- Response Rate of minimum 90% should be maintained
- With minimum 80% of the time host should have received a 5-star review when the 50% of guests had left review
- Completing each reservation successfully without cancellation.

## Aim

The main goal of the project is to get insights a little on the same topic along with answering these questions:

- Any price difference is there in terms of price paid for the bed between Superhost and Regular ?
- Difference in terms of years of experience between Superhost and Regular ?
- Difference in terms of variety of housing being offered by Superhosts and Regular ?

To address the above questions, we have performed analysis on Seattle Airbnb Dataset provided by *Kaggle.*

## Analysis

Answering the first type of question of whether price per bed differs from being regular (mean=80.83) vs. superhost (mean=87.10), a difference was noted (t-test=-3.31, p=0.0009). While analysing whether years of experience is bringing any difference between the two types of hosts,some difference was noted as well between the two groups (mean_years_for_regular=5.47; mean_years_for_super=5.66; t-test=-2.88, p=0.004). Finally, similarly some difference was observed while comparing both the groups offering house for trip (t-test=-2.26; p=0.024). Analysis revealed superhosts charge more for bed, besides having higher experience; they do offer larger proportion of houses as compared to other type of homes.

**Conclusion**

So finally we conclude; you will really have a good chance of better experience in case if you are staying with superhost. It would be unfair if we will not consider regular hosts as they are mostly trying to get credentials to that of the level of superhost. Lastly, becoming superhost is like great work in progress and also because of the working platform, we think that hosts should make their best in offering best experience so as to stay into business.

The above repository contains readme.md file along with jupyter notebook named Airbnb_Seattle.ipynb in which you will get code for analysis. Along with it, you will get dataset being used for analysis. The libraries used in exploratory data analysis performed with Python 3.6 are:

- Numpy==1.14.2
- seaborn==0.9.0
- Pandas==0.23.4
- scipy==1.0.0
- sklearn==0.20.0
- statsmodels==0.9.0
- matplotlib==2.2.2