Requirements

**Your task is to build a model that will predict the rental price for an AirBnB based off of several features. The target variable here is price and you may utilize any of the other features in data.csv to predict that outcome.**

Your Statement of Purpose should be a paragraph, 2 - 5 sentences in length, describing the problem that the notebook (ultimately a report) seeks to solve. Think about what the objective of our competition is, as well as who might benefit from the insights your predictive models provide and also how they might use that insight as you build out this paragraph. You'll receive feedback on your Statement of Purpose, which will be helpful when you are writing the report associated with your Advanced Module Project at the end of our semester.

1.your Statement of Purpose should achieve the following objectives:

(i) Clearly outline what you are doing.

(ii) Identify your target audience (who you are completing the analysis for).

(iii) Identify how that target population will benefit from the results of your analysis.

2.Write code to split the data coming from data.csv into three sets train,test and safe.

Remember that test and safe should stay hidden until later parts of the analytics project, conduct an exploratory analysis on the training data (train).

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3.your exploratory analysis should mix both code and text. In building your submission, it is important to keep only working code in your Jupyter Notebook, and to keep only relevant plots and summary statistics. Remember, your goal in this project is to build a model to predict a variable of interest. The majority of your explorations should be attempts at finding predictors which are associated with that response variable.

4,• Focus your efforts here on summary statistics and data visualization. You may also look for issues such as missing data. You do not, however, need to do any feature engineering at this point you'll almost certainly need utilize those techniques).

. As a reminder, your submission should look like a partial report, including only the **Statement of Purpose and Exploratory Data Analysis sections. Your report will mix text and code**,. **All of your code should come with context. Be sure to answer the questions "What do the outputs mean and why do we care**?"