# Methodology

**Data Understanding**

Following functions in python were used to understand the data

- df.shape
- df.describe
- df.info

**Visualization**

Tool used for doing univariate and bivariate analysis – **PowerBi**

Pie Chart – used for understanding the distribution of the categorical variable.

Tree Chart – used with minimum night variable. The size of each box is according to the percentage of grand total

Map Chart – used latitude and longitude data to display the location of listing, and added third variable for bubble size

Histogram – did binning of continuous variable like price, minimum nights and used it for univariate analysis

Line Chart – used it for continuous variable, where price and min_nights were plotted

Matrix – built multiple matrix and used it row, column and values option to build a matrix

**Assumptions**

- All data are actual and missing or NULL values has no significance

- Review received are all positive and indicates actual post after stay at one of the listings

**Presentation**

Based on the audience, appropriate visuals added to the presentation