



The objective of the univariate non-graphical EDA is to understand the sample distribution and also to make some initial conclusions about population distributions. Outlier detection is also a part of this analysis.

ii. Multivariate non-graphical EDA

Multivariate non-graphical EDA techniques show the relationship between two or more variables in the form of either cross-tabulation or statistics.

iii. Univariate graphical EDA

In addition to finding the various sample statistics of univariate distribution (discussed above), we also look graphically at the distribution of the sample. The non-graphical methods are quantitative and objective. They do not give full picture of the data. Hence, we need graphical methods, which are more qualitative in nature and presents an overview of the data.

iv. Multivariate graphical EDA

There are several useful multivariate graphical EDA techniques, which are used to look at the distribution of multivariate data. These are as follows:-

- Side-by-Side Boxplots
- Scatterplots
- Heat Maps and 3-D Surface Plots

Enough of theory, now let the journey begin.

The first step in the EDA journey is to import the libraries.

4. Import libraries

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[43]:

```
# This Python 3 environment comes with many helpful analytics libraries installed
# It is defined by the kaggle/python docker image: https://github.com/kaggle/docker-python
# For example, here's several helpful packages to load in
```