**DMPM Lab Assignment -1**

**Data Exploration & Visualization**

1. Read the dataset file that is supplied to you.

2. Identify the variables in the file and determine whether any variable has any missing values.

3. Input some of the variables that have missing values using their corresponding mean values. Verify whether your task has been correctly done.

4. Determine the "summary" information for the numerical variables.

5. Identify the "distributions" of the numerical variables and plot the distributions.

6. Transform the numeric variables into their natural log values and scale [0 - 1] values.

7. Check whether the numeric variables follow normality conditions.

8. Find the correlation matrix for all the variables in the dataset and plot the graph of the correlation matrix.

9. **Any additional ways of Data Exploration & Visualization will be highly appreciated.**