**Checklist**

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| * Understand the data |  |
| * Create a Problem Statement |  |
| * Develop Goal/Aim |  |
| * Check if the data is apt for multivariate analysis |  |
| * Prepare Data Dictionary with each column definitions |  |
| * Create a Project Plan using SPAP (S.M.A.R.T) |  |
| * Identify Independent/Dependent variables |  |
| * Perform Exploratory Analysis |  |
| * Raise relevant questions and check if data set is able to answer them |  |
| * Perform Basic Visualizations   -Scatter Plot  -Scatter Plot Matrix  -Box-Plot  -Histograms  -Pie Chart  -Bar Chart |  |
| * Detect outliers |  |
| * Identify distortions to correlations |  |
| * Calculate VAR & COV |  |
| * Remove Outliers |  |
| * Normality |  |
| * Transform the data if necessary |  |
| * Hypothesis Testing   -T-test  -Hotelling test  -Levene Test |  |