

## Mini Project

Investigate any quantitative dataset within data science field of the topic chosen by you or your group. You can find the dataset from kaggle.com or any source of your choice. After selection of dataset, you need to take the approval from the concerned faculty. You are required to perform following tasks:

- Investigate relationship between 2/more categorical variables.
- Analyse a combination of categorical and continuous variables.
- Using the T-Test assess the probability that difference T-Test observed is genuine (not by chance) and occurs in the population.
- State a hypothesis and also Provide a null hypothesis (i.e. means for both groups are equal in the population.)
- Perform a simple regression analysing (use the independent variable to estimate dependent variable)
- Create scatter plot for correlation and regression.
- Use ANOVA to determine whether the amount of variance between the groups is greater than the variance within the groups).
- Create bar chart with a summary function for the ANOVA