Step1: Importing necessary libraries

Step2: Exploring dataset

1. Load the dataset
2. Check the shape (number of features and samples)
3. Check information regarding columns (data type, number of non-null records)
4. Check if any null values in any columns
5. Drop unnecessary columns/attributes.
6. Checking number of unique elements in each attribute.
7. Plotting histogram for each of the attributes.

Step3: Feature Engineering

1. Select features that have strong relationship with target variables.
2. As all the features are categorical variables, we choose Chi-square test.

Step4: Model Building

1. Create a model metric data frame to capture metrics (Accuracy) of each model used.
2. Split the data in training and testing.
3. Build model with
4. Logistic Regression
5. Decision Tree
6. Random Forest
7. XGB Classifier
8. Calculate accuracy for each model for both train and test data.
9. Select the best model based on model metrics value and save it to be used for prediction.