**Will a start-up succeed or fail?**

Classification Task

Step 1. Understanding the problem and dataset: Started with reading the train and test file, converted them in a data frame and performed basic descriptive statistics of the dataset.

Step 2. Explorary data Analysis: First explored categorical data and got some insights of categorical columns and then on numerical columns.

Step 3. Preprocessing: First encoded the categorical columns using dummy variables and label encoding then performed recursive feature elimination for feature selection and then optimized it for optimum number of features

Step 4. Modeling and Evaluation: Spitted the Dataset after feature selection for validation and performed logistic regression on it got roc\_auc\_score of 0.718 and calculated the evaluation metrics for the model

Step 5. Prediction: Predicted on test dataset using logistic regression trained model