Machine Learning (CS60050)

Assignment 2: Classification using Logistic Regression and Decision Trees

Name : Sanket Meshram

Roll NO.: 17CS30030

Logistic Regression

(Result may vary each time since i am using Random shuffle for 3-Fold)

- My Logistic Regression
  - Mean accuracy : 0.8761726078799249
  - Mean precision : 0.6039072039072039
  - Mean recall : 0.28419271613306635
- Sklearn Logistic Regression
  - Mean accuracy : 0.8767979987492183
  - Mean precision : 0.5873186673043201
  - Mean recall : 0.3326230923768638

Decision Tree

- My Decision Tree
  - Mean accuracy : 0.7898686679174484
  - Mean precision :0.45491557415027084
  - Mean recall :0.4249342062197896
- Sklearn Decision Tree
  - Mean accuracy :0.7917448405253283
  - Mean precision :0.49218294857876926
  - Mean recall : 0.429911296558251