**Ensemble model**

Mean Accuracy of the 9 machine learning models: 0.8929

Models above threshold: rf, rpart, svmRadial, gbm, xgbTree, knn, glmnet"

Train Metrics:

Accuracy : 0.9166667

Precision : 0.9411765

Recall : 0.7272727

F1\_Score : 0.8205128

Test Metrics:

Accuracy : 0.9

Precision : 0.8

Recall : 0.8

F1\_Score : 0.8