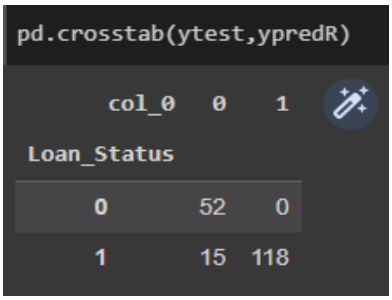
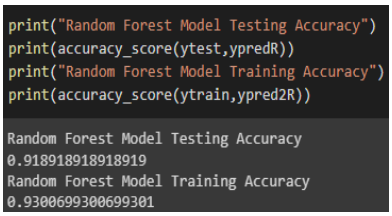
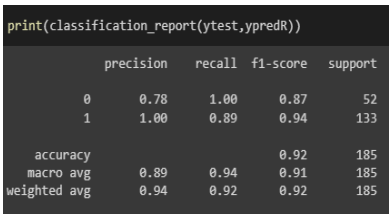
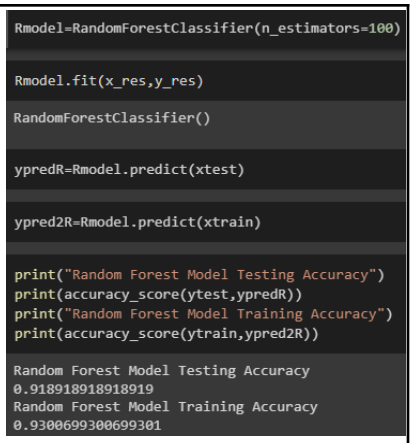
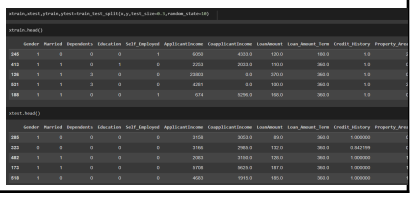
Project Development Phase
Model Performance Test

Date	18 November 2022
Team ID	PNT2022TMID22689
Project Name	Smart Lender - Applicant Credibility Prediction for Loan Approval
Maximum Marks	10 Marks

Model Performance Testing:

Project team shall fill the following information in model performance testing template.

S.No.	Parameter	Values	Screenshot
1.	Metrics	**Classification Model:** Confusion Matrix : Col_0 Loan_Status 1 0 0 52 0 1 15 118 **Accuracy Score:** Random Forest Model Testing Accuracy: 0.918918918918919 Random Forest Model Training Accuracy: 0.9300699300699301 **Classification Report:** precision recall f1-score support 0 0.78 1.00 0.87 52 1 1.00 0.89 0.94 133 accuracy 0.92 185 macro avg 0.89 0.94 0.91 185 weighted avg 0.94 0.92 0.92 185	  

2.	Tune the Model	**Hyperparameter Tuning:** No tuning is necessary as we have more than 90% accuracy. **Parameters used:** n_estimators=100 **Validation Method:** **In-Simple Validation**