Project Development Phase Model Performance Test

Date	10 November 2022	
Team ID	PNT2022TMID13933	
Project Name	Project - 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.	Random Forest Model Accuracy: Classification Report:	Accuracy:	print("Random Forest Model Testing Accuracy") print(accuracy_score(ytest,ypredR)) print("Random Forest Model Training Accuracy") print(accuracy_score(ytrain,ypredR)) Random Forest Model Testing Accuracy 0.9465405405405406 Random Forest Model Training Accuracy 0.8997668997668997 print(classification_report(ytest,ypredR)) precision recall f1-score support 0.83 1.00 0.90 52 1 1.00 0.92 0.96 133
2.	Tune the Model	Hyperparameter Tuning – No Tuning is performed Validation Method – In-sample Validation	accuracy 8.94 185 macro avg 8.91 8.96 8.93 185 weighted avg 8.95 8.94 8.94 185 df.Gender-le.fit_transform(df.Gender) df.Harried-le.fit_transform(df.Harried) df.Education-le.fit_transform(df.Self_Employed) df.Property_Area-le.fit_transform(df.Property_Area) df.Loan_Status-le.fit_transform(df.Property_Area) df.Loan_Status-le.fit_transform(df.Dean_Status) df.Dependents-le.fit_transform(df.Dean_Status)