

## Project Development Phase Model Performance Test

Date	10 November 2022
Team ID	PNT2022TMID01486
Project Name	Project - SMART-LENDER
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	<b>Regression Model:</b> MAE - , MSE - , RMSE - , R2 score -  <b>Classification Model:</b> Confusion Matrix - , Accuray Score- & Classification Report -	<pre> **** Random Forest Classifier **** Confusion Matrix [[18 25]  [ 2 78]] Classification Report       precision    recall  f1-score   support       0       0.90      0.42      0.57         43      1       0.76      0.97      0.85         80   accuracy          0.83          0.70          0.78         123  macro avg          0.83          0.70          0.71         123  weighted avg          0.81          0.78          0.75         123 </pre>
2.	Tune the Model	Hyperparameter Tuning - Validation Method -	<pre> Accuracy: 0.7804878048780488 Precision: 0.7572815533980582 Recall: 0.975 F1 Score: 0.8524590163934427 Cohens Kappa Score: 0.4491623818211975 Area Under Curve: 0.7329941860465116 </pre>