

Project Development Phase
Model Performance Test

Date	10 November 2022
Team ID	PNT2022TMID21753
Project Name	Smart Lender - Applicant Credibility Prediction for Loan Approval
Maximum Marks	10 Marks

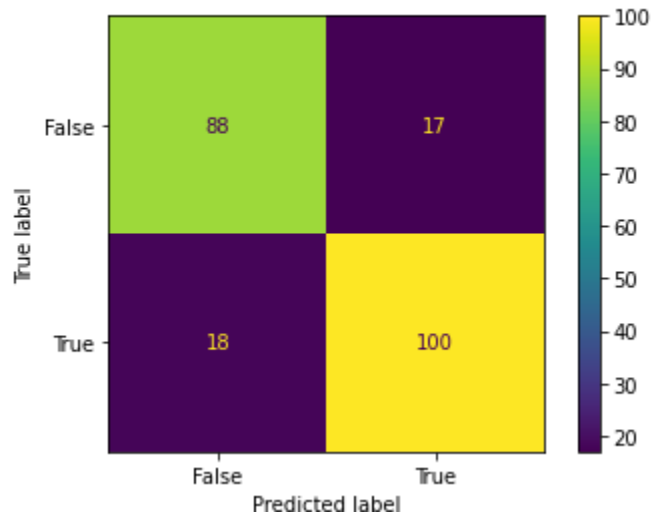
Model Performance Testing:

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

S.No.	Parameter	Values
1.	Metrics	Classification Model: Decision Tree Accuracy Score - 84% <u>Classification Report</u> <pre> precision recall f1-score support 0 0.83 0.84 0.83 105 1 0.85 0.85 0.85 118 </pre>
2.		Classification Model: Random Forest Accuracy Score - 84% <u>Classification Report</u> <pre> precision recall f1-score support 0 0.89 0.81 0.85 105 1 0.84 0.91 0.87 118 </pre>
3.		Classification Model: KNN Accuracy Score - 78% <u>Classification Report</u> <pre> precision recall f1-score support 0 0.82 0.70 0.76 105 1 0.77 0.86 0.81 118 </pre>
4.		Classification Model: XGBoost Accuracy Score - 85% <u>Classification Report</u> <pre> precision recall f1-score support 0 0.90 0.77 0.83 105 1 0.82 0.92 0.87 118 </pre>

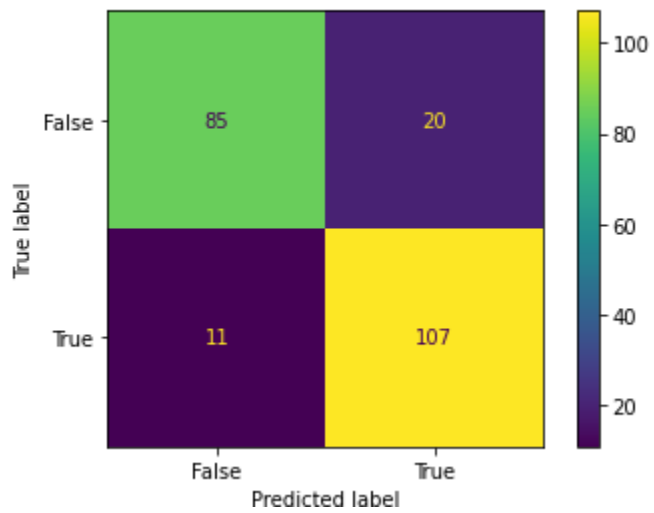
DECISION TREE CLASSIFIER

Confusion Matrix



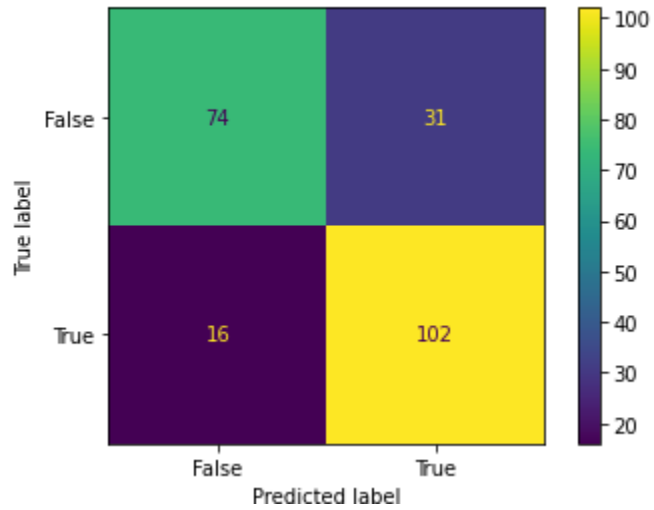
RANDOM FOREST CLASSIFIER

Confusion Matrix



KNN

Confusion Matrix



XG BOOST

Confusion Matrix

