Project Development Phase Model Performance Test

Date	10 November 2022
Team ID	PNT2022TMID53287
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	Accuracy Scores- Decision tree: 93% KNN :89% Random Forest:96% XGBoost:92%	Model Accuracy O Decision Tree 0.928571 1 K-Nearest Neighbours 0.892857 2 Random Forest 0.964286 3 XGBoost 0.928571
2.	Tune the Model	Hyperparameter Tuning - GridSearchCV Validation Method – Ensembling and Voting	<pre>params_xg = {'max_depth':np.arange(3,10)} xg_gs = GridSearchCV(XGBClassifier(),params_xg,cv=5) xg_gs.fit(X_train,y_train) GridSearchCV(cv=5, estimator=XGBClassifier(), param_grid={'max_depth': array([3, 4, 5, 6, 7, 8, 9])}) print(xg_gs.best_estimator_) XGBClassifier(max_depth=6)</pre>

