Project Development Phase
Model Performance Test

Date	10 November 2022
Team ID	PNT2022TMID11620
Project Name	Project – Car Resale Value Prediction
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	**Regression Model:** MAE - 1635.2268363398357 MSE – 11836295.137243608 RMSE – 3440.391712762314 R2 score - 0.8345401773383525	mae 1635.2268363398357 mse 11836295.137243608 rmse 3440.391712762314 rmsle 8.143340613873793 r2 0.8345401773383525 adj_r2_score 0.8345316919146367
2.	Tune the Model	Hyperparameter Tuning – Grid search n_estimators = 1000 max_depth = 10 random_state = 34 Validation Method – used the KFold method n_split = 3 shuffle = Ture random_state = 34	from sklearn.ensemble import RandomForestRegressor from sklearn.metrics import r2_score r=RandomForestRegressor(n_estimators=1000,max_depth=10,random_state=34) r.fit(X_train,np.ravel(Y_train,order='C')) Train data [0 1 2 ... 278575 278576 278577] Test data [5 14 20 ... 278566 278568 278570 Train data [0 3 5 ... 278575 278576 278577] Test data [1 2 4 ... 278572 278573 278574 Train data [1 2 4 ... 278572 278573 278574] Test data [0 3 8 ... 278575 278576 278577