Project Development Phase Model Performance Test

Date	18 November 2022	
Team ID	PNT2022TMID21553	
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: R2 score	We used R2 score metrics since our model is a regression one.
			[25] pred_1 = regressor.predict(X_test)
			<pre>print(r2_score(Y_test, pred_1))</pre>
			D 0.834527626497731
2.	Tune the Model	Hyperparameter Tuning	In machine learning, hyperparameters are parameters that the user explicitly defines to regulate the learning process. N estimators is one such significant parameter used for hyper parameter tuning. We also used n estimators in our model to tune the hyperparameters.
			[23] from sklearn.ensemble import RandomForestRegressor from sklearn.metrics import r2_score
			regressor = RandomForestRegressor(n_estimators=1000, max_depth=10, random_state=34) regressor.fit(X_train, np.ravel(Y_train, order='C'))
			RandomForestRegressor(max_depth=10, n_estimators=1000, random_state=34)