Project Development Phase
Model Performance Test

Date	10 November 2022
Team ID	PNT2022TMID41109
Project Name	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:** LGBM Regressor
		
		MAE: 1327.55
		MSE: 9492244.28
		RMSE: 3080.95
		RMSLE: 8.03
		R2 Score: 0.8668
		Adjusted R2 Score: 0.8668
			Choose the metrics of the model
			
			`#predicting the values to test set`
			`y_pred = regressor.predict(X_test)`
			`#printing the accuracy for test set`
			`print(r2_score(Y_test,y_pred))`

2.	Tune the Model	**Hyperparameter Tuning** 1) Learning Rate: [0.01, 0.03, 0.05, 0.07] 2) Boosting Type: ['gbdt','dart','goss','rf'] 3) Number of Estimators: [100,200,300] **Validation Method**: Grid Search Cross Validation **Best Parameters:** Learning Rate – 0.07 Boosting Type – 'gbdt' Number of Estimators - 300