# Project Development Phase Model Performance Test

Date	10 November 2022	
Team ID	PNT2022TMID43789	
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: LGBM Regressor  MAE: 1327.55 MSE: 9492244.28 RMSE: 3080.95 RMSLE: 8.03 R2 Score: 0.8668 Adjusted R2 Score: 0.8668	and 1 colors are transported by the second process of the second and the second are transported by the second and the second are transported by the second a
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	Igbm_configs = {

#### **Screenshots**

#### 1) Metrics

#### 2) Tune the model

```
lgbm_configs = {
    "name": 'LGBMRegressor',
    "method": "grid",
        "goal": "maximize"
        "learning_rate": {
            "values": [0.01, 0.03, 0.05, 0.07]
        "objective": {
            "values": ['root_mean_squared_error']
        "boosting_type": {
           "values": ['gbdt','dart','goss','rf']
        "reg_sqrt": {
            "values": [True]
        "metric": {
           "values": ['rmse']
        "n estimators": {
            "values": [100,200,300]
        "random_state": {
           "values": [42]
```

## 3) Wandb sweep:

