# Project Development Phase Performance Test

Date	18 November 2022	
Team ID	PNT2022TMID27565	
roject 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: 1327.56  MSE: 9492244.25  RMSE: 3080.93  RMSLE: 8.05  R2 Score: 0.8664  Adjusted R2 Score: 0.8666	and cliniques that gives a large great distriction of antiques an algorithms of any other community of antiques of
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 = {         "name": 'LGBNRegressor',         "method": 'grid",         "method": 'grid",         "method": 'grid",         "method": 'grid",         "mane": "adj_r2",         "goal: "maximize"         },         "parameters": {               "values": [0.01, 0.03, 0.05, 0.07]         },         "objective": [               "values": ['root_mean_squared_error']               "boosting_type": {                     "values": ['rbdt','dart','goss','rf']                     "reg_sqrt": {                    "values": ['rmse']                     "n estimators": {                     "values": ['rmse']                     "n estimators": {                     "values": [100,200,300]

#### **Screenshots**

#### 1) Metrics

### 2) Tune the model

```
lgbm_configs = {
    "name": 'LGBMRegressor',
    "method": "grid",
    "metric": {
        "name": "adj_r2",
        "goal": "maximize"
        "learning rate": {
            "values": [0.01, 0.03, 0.05, 0.07]
            "values": ['root_mean_squared_error']
        "boosting_type": {
            "values": ['gbdt','dart','goss','rf']
        "reg_sqrt": {
            "values": [True]
            "values": ['rmse']
        "n estimators": {
           "values": [100,200,300]
        "random_state": {
            "values": [42]
```

## Wandb Sweep:

