# Project Development Phase Model Performance Test

Date	17 November 2022	
Team ID	PNT2022TMID40127	
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: 1327.56  MSE: 9492244.25  RMSE: 3080.93  RMSLE: 8.05  R2 Score: 0.8664  Adjusted R2 Score: 0.8666	and comparationing age (and change are all anchors for dustman analysis of the conclusion of data addressing ages of many analysis of the conclusion of the
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",
   "metric": {
        "goal": "maximize"
   },
"parameters": {
        "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]
            "values": ['rmse']
            "values": [100,200,300]
        "random_state": {
            "values": [42]
```

### Wandb Sweep:

