# Project Development Phase Model Performance Test

Date	18 November 2022	
Team ID	PNT2022TMID44603	
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 1. companies (mining jam jam jamang jama
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	lgbm configs = {

#### **Screenshots**

#### 1) Metrics

#### 2) Tune the model

```
lgbm_configs = {
    "name": 'LGBMRegressor',
    "method": "grid",
        "name": "adj_r2",
        "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]
            "values": ['rmse']
        "n_estimators": {
            "values": [100,200,300]
        "random_state": {
            "values": [42]
```

### Wandb Sweep:

