Project Development Phase Model Performance Test

Date	10 November 2022	
Team ID	PNT2022TMID44773	
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 colored processing the processing second particles of particles and particles and particles are specifically and an accordance of particles and particles and particles are specifically and according particles and according particles are specifically and according to the color of particles are specifically according to the color of particles are
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",
        "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]
```

3) Wandb sweep:

