Project Development Phase Model Performance Test

Date	17 November 2022	
Team ID	PNT2022TMID40776	
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 - Landger committing year (all channels about a particular or a depotier or an extend or or a depotier or and an extend or an ext
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	<pre>lgbm_configs = { "name": 'LGSMRegressor', "method": 'grid', "metric": { "name": "adj_r2", "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": ['rmse'] , "n_estimators": { "values": ['rmse'] , "n_estimators": { "values": [100,200,300] , "random_state": { "values": [42] } } </pre>

Screenshots

1) Metrics

2) Tune the model

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

Wandb Sweep:

