Project Development Phase Model Performance Test

Date	17 November 2022	
Team ID	PNT2022TMID43312	
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	In [3], and I simble promising type "par", treeing recent My and in "mar", artifaction [30], Apiction "mar unan unan unan unan unan unan unan un
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 = { "name": 'LGBMRegressor', "method": "grid", "method": "grid", "method": "adj_r2", "goal": "maximize" }, "parameters": { "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'] }, "n_estimators": { "values": [100, 200, 300] }, "random_state": { "values": [42] } } } } **Notice

Screenshots

1) Metrics

2) Tune the model

```
lgbm_configs = {
    "name": 'LGBMRegressor',
    "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": [True]
        },
        "metric": {
            "values": ['rmse']
        "n_estimators": {
            "values": [100,200,300]
        "random_state": {
            "values": [42]
   }
}
```

Wandb Sweep:

