Project Development Phase

Model Performance Test

Date	19 NOvember 2022
Team ID	PNT2022TMID00068
Project Name	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: MAE - 1325.112086905962 MSE - 9577053.62710202 RMSE - 3094.6815065692977 R2 score - 0.8661221626879432 RMSLE - 8.03744027403009 ADJ_R2_score - 0.8661152969113608	<pre>def find_scores(Y_actual, Y_pred, X_train): scores = dict() mae = mean_absolute_error(Y_actual, Y_pred) mse = mean_squared_error(Y_actual, Y_pred) mse = np.sqrt(mse) rmse = np.sqrt(mse) rmsle = np.log(rmse) r2 = r2_score(Y_actual, Y_pred) n, k = X_train.shape adj_r2_score = 1 - ((1-r2)*(n-1)/(n-k-1)) scores['mae']=mae scores['mse']=rmse scores['rmse']=rmse scores['rmse']=rmse scores['rmse']=rese scores['rdj_=r2_score']=adj_r2_score return scores model = LGBMegressor(boosting_type="gbdt",learning_rate=0.67,metric="rmse",n_estimators=300,objective="root_mean_squared_error" model.fit(X_train, Y_train) Y_pred = model.predict(X_test) find_scores(Y_test, Y_pred, X_train) C(\Users\gumun\anaconda3\lib\site-packages\sklearn\utils\validation.py:993: DataConversionslarning: A column-vector y was passed when a id array was expected. Please change the shape of y to (n_samples,), for example using ravel(). y = column_or_1d(y, warn=True) ("me': 1325.112086995502, "nse': 3937463220890909, 'r2': 0.866112266978422, 'rsse': 3084.681505699173, 'rsse': 3084.681505699173, 'rsse': 8.866112266978422, 'rsse': 8.86611266978422, 'rsse': 8.8661126698422166824216684424 </pre>