

Project Development Phase

Model Performance Test

Date	18 November 2022
Team ID	PNT2022TMID30426
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) 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'] = mse scores['rmse'] = rmse scores['rmsle'] = rmsle scores['r2'] = r2 scores['adj_r2_score'] = adj_r2_score return scores</pre> <pre>model = LGBMRegressor(boosting_type="gbdt", learning_rate=0.07, metric="mse", 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)</pre> <p>C:\Users\gurun\anaconda3\lib\site-packages\sklearn\utils\validation.py:993: DataConversionWarning: A column-vector y was passed when a 1d array was expected. Please change the shape of y to (n_samples,), for example using ravel(). y = column_or_1d(y, warn=True)</p> <pre>{ 'mae': 1325.112086905962, 'mse': 9577053.62710202, 'rmse': 3094.6815065692977, 'rmsle': 8.03744027403009, 'r2': 0.8661221626879432, 'adj_r2_score': 0.8661152969113608 }</pre>