Project Development Phase Model Performance Test

Date	10 November 2022
Team ID	PNT2022TMID36734
Project Name	Project – University Admit Eligibility Predictor
Maximum Marks	10 Marks

Model Performance Testing:

Project team shall fill the following information in model performance testing template.

S.No.	Paramete r	Values	Screenshot
1.	Metrics	Regression Model: MAE -0.043051, MSE - 0.003313, RMSE - 0.057560, R2 score - 0.807216 Classification Model: Confusion Matrix , Accuray Score- 0.872& Classification Report.	<pre>In [47]: mae = metrics.mean_absolute_error(y_test, predlinear) mse = metrics.mean_squared_error(y_test, predlinear) rmse = np.sqrt(mse) # or mse**(0.5) r2 = metrics.r2_score(y_test, predlinear) In [48]:</pre>
2.	Tune the Model	Hyperparameter Tuning. Validation Method.	In [64]: scores = cross_val_score(model, X_train, y_train, scoring='r2', cv=5) scores Out[64]: array([0.81813967, 0.77169539, 0.83989563, 0.74719974, 0.78589678]) In [65]: avg_score=scores.mean() In [67]: print ("Cross Validation Scores : ",scores) print ("Average CV Score : ",avg_score) print ("Number of CV Scores used in Average : ",len(scores)) Cross Validation Scores : [0.81813967 0.77169539 0.83989563 0.74719974 0.78589678] Average CV Score : 0.7925654408790849 Number of CV Scores used in Average : 5