Project Development Phase Model Performance Test

Date	10 NOvember 2022
Team ID	PNT2022TMID28129
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.	Parameter	Values	Screenshot
1.	Metrics	Regression Model: MAE - , MSE - , RMSE - , R2 score -	<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]: chart = { 'Metric':["MAE", "MSE", "RMSE", "R2-SCORE"], 'LINEAR_REGRESSION':[mae,mse,rmse,r2], } chart = pd.DataFrame(chart)</pre>
		Classification Model: Confusion Matrix - , Accuray Score- &	In [49]: display(chart) Metric LINEAR_REGRESSION 0
		Classification Report -	<pre>methodDict = {} methodDict['Linear Regression'] = model.score(X_test, y_test)*100 Accuracy : 80.7216438856893</pre>
2.	Tune the Model	Hyperparameter Tuning - Validation Method -	In [64]: scores = cross_val_score(model, X_train, y_train, scoring='r2', cv=5)