

Project Development Phase Model Performance Test

Date	17 November 2022
Team ID	PNT2022TMID08835
Project Name	University Admit Eligibility Predictor
Maximum Marks	10 Marks

Model Performance Testing:

Parameter

01.Metrics

Regression Model:

MAE - , MSE - , RMSE - , R2 score -

Classification Model:

Confusion Matrix - , Accuracy Score- & Classification Report

Screenshot

```
[In [55]: from sklearn.metrics import accuracy_score, recall_score, roc_auc_score, confusion_matrix

print('Accuracy Score:', (accuracy_score(y_test, y_pred)))
print('Recall Score:', (recall_score(y_test, y_pred)))
print('ROC AUC Score:', (roc_auc_score(y_test, y_pred)))
print('Confussion Matrix:\n', confusion_matrix(y_test, y_pred))

Accuracy Score: 0.9666666666666667
Recall Score: 1.0
ROC AUC Score: 0.75
Confussion Matrix:
[[ 2  2]
 [ 0 56]]
```

02 .Tune the Model

Hyperparameter Tuning -
Validation Method –

Screenshot

MODELING AND TRAINING

```
[In [48]: from sklearn.ensemble import GradientBoostingRegressor  
rgr = GradientBoostingRegressor()  
rgr.fit(X_train,y_train)
```

```
Out[48]: GradientBoostingRegressor()
```

```
[In [49]: rgr.score(X_test,y_test)
```

```
Out[49]: 0.733470845801191
```
