

Project Development Phase Model Performance Test

Date	08-11-2023
Team ID	Team-592521
Project Name	Project – Online Shoppers Intention 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 - , MSE - , RMSE - , R2 score - Classification Model: Confusion Matrix - , Accuracy Score- & Classification Report -	<pre> n_iter_1 = _check_optimize_result(*****Logistic Regression***** Confusion Matrix [[3065 81] [355 198]] Classification Report precision recall f1-score support False 0.90 0.97 0.93 3146 True 0.71 0.36 0.48 553 accuracy 0.88 0.88 0.88 3699 macro avg 0.80 0.67 0.70 3699 weighted avg 0.87 0.88 0.87 3699 </pre> <pre> *****Random Forest Classifier***** Confusion Matrix [[3042 104] [240 313]] Classification Report precision recall f1-score support False 0.93 0.97 0.95 3146 True 0.75 0.57 0.65 553 accuracy 0.91 0.91 0.91 3699 macro avg 0.84 0.77 0.80 3699 weighted avg 0.90 0.91 0.90 3699 </pre>

2.	Tune the Model	Hyperparameter Tuning - Validation Method – Cross Validation	<pre>rf = RandomForestClassifier() rf.fit(X_train,Y_train) ypred = rf.predict(X_test) cv = cross_val_score(rf,X,Y,cv = 5) np.mean(cv)</pre> <p>0.8966747769667478</p>
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