



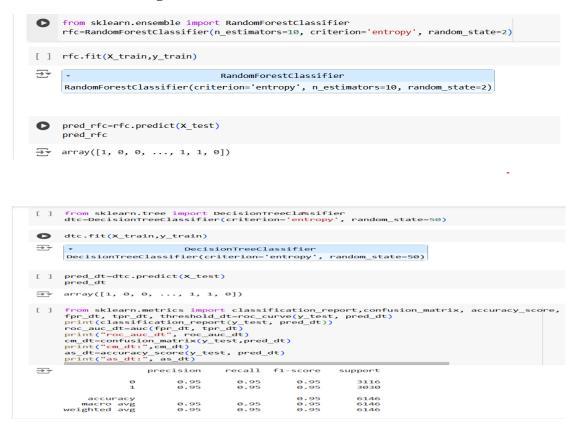
## **Model Development Phase Template**

Date	15 July 2024	
Team ID	740057	
Project Title	Airline Reviews Classification	
Maximum Marks	4 Marks	

## Initial Model Training Code, Model Validation and Evaluation Report

The initial model training code will be showcased in the future through a screenshot. The model validation and evaluation report will include classification reports, accuracy, and confusion matrices for multiple models, presented through respective screenshots.

## **Initial Model Training Code:**







## **Model Validation and Evaluation Report:**

Model	Classification Report	Accuracy	Confusion Matrix
Random forest classifier	from sklearm.emsemble import RandomirorestClassifier rfc-RandomirorestClassifier(n_estimators-i0, criterions'entropy', random_state-2)  [	95%	on rfs-confusion matrix(y test, pred rfc)  print("on rfc", "on rfc)  on afg-conserver researly test, most afg)
Decision tree	[] from skinars.tree import DecisionTreeClassifier stc-OncisionTreeClassifier(criterion='entropy', random_state=50)  [] dtc.fit(X_train,y_train)  DecisionTreeClassifier DecisionTreeClassifier DecisionTreeClassifier DecisionTreeClassifier(criterion='entropy', random_state=50)  [] pred_st-dtc.predict(X_test) pred_st  Trans([1, 0, 0,, 1, 1, 0])  Of from skinars.metrics import classification_report_confusion_matrix, accuracy_score, fpr.st, tpr.gt, threwbold_dtreec_convex(y_test, pred_st) print(classification_report(y_test, pred_st)) roc_ass_dtrace(fpr_dt, tpr_dt) print(Tree_ass_dtr, roc_ass_dt) print(Tree_ass_dtr, roc_ass_dt)  print(Tree_ass_dtr, roc_ass_dt)  print(Tree_ass_dtr, ass_dt)  Tree_ass_dtrace(fr_dtreec, free_dt) print(Tree_ass_dtr, ass_dt)  print(Tree_ass_dtr, ass_dt)  accuracy macro avg 0.55 0.55 0.55 0.35 accuracy macro avg 0.55 0.55 0.55 0.366	94%	<pre>cm_dt=confusion_matrix(y_test,pred_dt) print("cm_dt:",cm_dt) as dt=accuracy score/y test_need_dt)</pre>





