



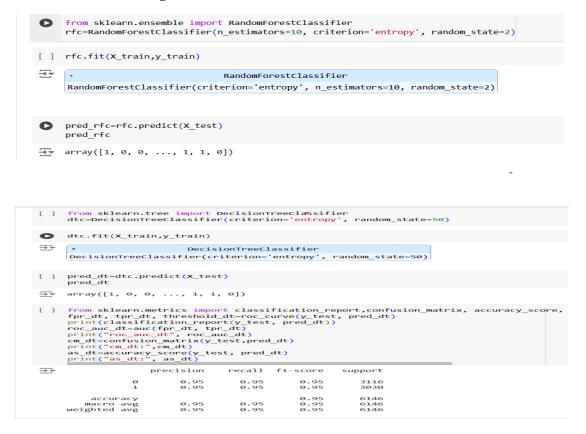
Model Development Phase Template

Date	15 July 2024	
Team ID	739653	
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>





