Model Development Phase Template

Date	15 July 2024
Team ID	740051
Project Title	SDSS galaxy classification using Machine
	Learning
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:

Paste the screenshot of the model training code

Model Validation and Evaluation Report:

Mode l	Classification Report	Acc ura cy	Confusion Matrix
Decis ion Tree	from sklearn.tree import DecisionTree clf = DecisionTreeClassifier() # Use of the Use of	0.7 7	from sklearn.linear_model import LogisticRegression from sklearn.metrics import accuracy_score, classification_report, recall lg = LogisticRegression() log=lg.fit(x_train,y_train) print("confusion matrix: \n",confusion_matrix(y_test,y_pred)) print("

Rand omFo rest	<pre>RANDOM FOREST CLASSIFIER [] from sklearn.ensemble impo RF=RandomForestClassifier # Train the Random Forest RF = RandomForestClassifie [] RF.fit(x_train,y_train) RFtrain=RF.predict(x_train RFtest=RF.predict(x_test)</pre>	1.0	<pre>from sklearn.metrics import confusion_matrix, classification # print classification report , confusion matrix print(confusion_matrix(RFtrain,y_train)) print(confusion_matrix(RFtest,y_test)) print(classification_report(RFtrain,y_train)) # Fix the print(classification_report(RFtest,y_test)) # Fix the ty</pre>
Logis tic Regre ssion	LOGISTIC REGRESSION [] from sklearn.linear_model import LogisticRegression from sklearn.metrics import accuracy_score, classifi	0.7 7	<pre></pre>