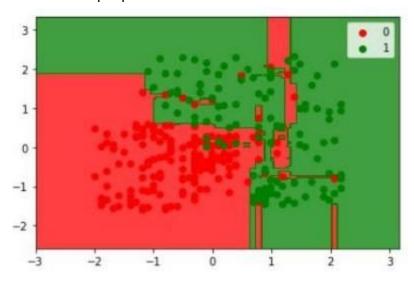
COIMBATORE INSTITUTE OF TECHNOLOGY MSC DECISION AND COMPUTING SCIENCES

Problem Statement-1: Social_Network_Ads

AIM:

To try to understand the dataset of Social_Network_Ads.csv and try to find the best suitable ML algorithm and write the code in python for algorithm from scratch and try to achieve the below output plot



DATASET:

The Social_Network_Ads.csv is a Categorical dataset that contains the data about profiles of the users either he/she purchased the product or not.

SOLUTION:

For the given data I have used **Random Forest Classifier**, instead of Logistic Regression and Naive Bayes Classifier, because it is a meta estimator that fits a number of decision tree classifiers on various sub-samples of the dataset and also it uses averaging to produce the higher accuracy.

I have inserted the snippet code along with the screenshots of the output

From the above used model i got the accuracy as : 0.85

