Curneu MedTech Innovations Private Limited

Problem Statement 1: - Mandatory

A dataset labelled based on fruit height, width, mass and colour score is given in fruits.xlsx. A classifier based on k Nearest Neighbour (KNN) algorithm is to be crafted for classification.

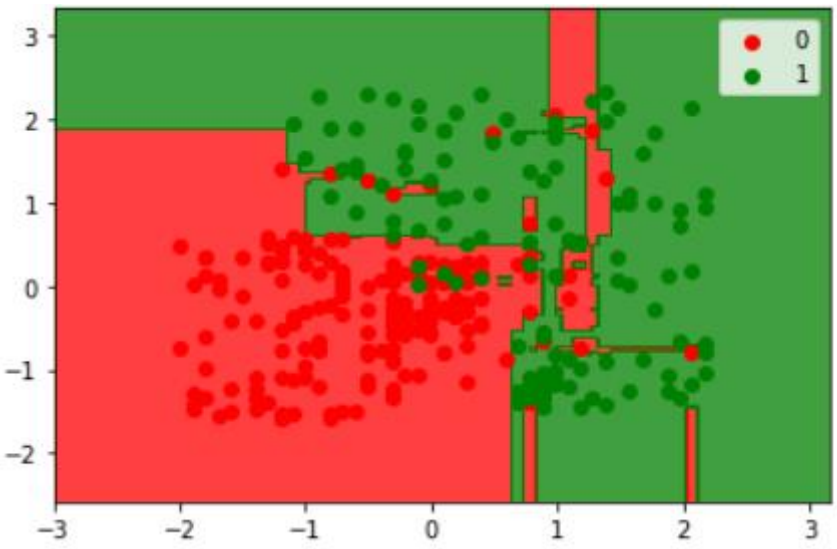
- Generate scatter plots for various combination of parameters and do the feature engineering meaning thereby which parameters of best suited to build the classifier.
- Split the data into test and training split.
- Building a classifier using KNN from scratch.
- Figure out the best value of k with highest r_score.
- Run at least three test cases on the parameter and assess the fruit using the classifier.
- Only use python

Expected Output:

1. Detailed documentation
2. Code's with GitHub link
3. screenshots and recorded output video.

Problem Statement 2: - Mandatory

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.



Expected Output:

1. Detailed documentation
2. Code's with GitHub link
3. screenshots and recorded output video.