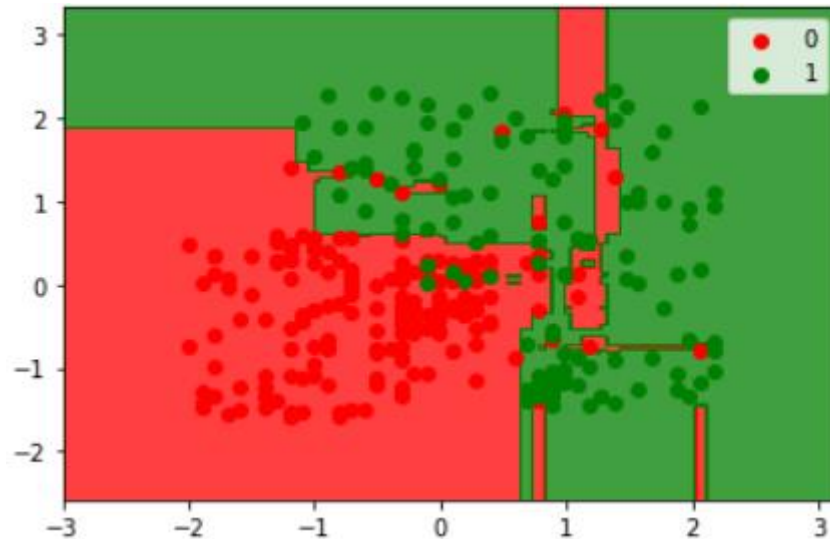# Curneu MedTech Innovations Private Limited

Problem Statement 1: - 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.

Problem Statement 2: - Mandatory

Predict Heart Failure, create a model to assess the likelihood of a death by heart failure event from scratch.

About dataset: heart_failure_clinical_records_dataset.csv

Cardiovascular diseases (CVDs) are the **number 1 cause of death globally**, taking an estimated **17.9 million lives each year**, which accounts for **31% of all deaths worlwide**. Heart failure is a common event caused by CVDs and this dataset contains 12 features that can be used to predict mortality by heart failure.

Most cardiovascular diseases can be prevented by addressing behavioural risk factors such as tobacco use, unhealthy diet and obesity, physical inactivity and harmful use of alcohol using population-wide strategies.

People with cardiovascular disease or who are at high cardiovascular risk (due to the presence of one or more risk factors such as hypertension, diabetes, hyperlipidaemia or already established disease) need **early detection** and management wherein a machine learning model can be of great help.

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NOTE: Clear documentation needed for ML model your using and what you have understood from the dataset.

Expected Output:

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