**Capstone Report (Level 3)**

**Heart Failure Prediction**

I used a heart failure clinical records dataset to use the data given to predict whether the person with those conditions and characteristics such as (age, anaemia, creatinine phosphokinase, diabetes, ejection fraction, high blood pressure, platelets, serum creatinine, serum sodium, gender, smoking, etc) will pass away or not, and then compared those results with the real results and got the mean squared error.

A screenshot of a social media post

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**Explanation of the code –**

First, I read the csv file using pandas and assigned it to a random variable ‘a’. Then I filled all the missing values in the file with zero, so it does not give me an error later. Then I assigned two new variables ‘x’ and ‘y’, in x in assigned all the values I will be using from the file to predict the result, and in y in assigned the death\_event, so I can compare It later with my prediction. Then I split the data, assigned it to different variables and plotted the graph. Then I predicted the results and compared it with the real results and got the mean squared error.