

# Machine Learning Course

## Project #3

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1. In this project you have to create an MLP network using numpy. You are given a dataset that contains information about different people. Some of these people have heart disease and others do not. Information about the features of this dataset is included in the first sheet. Use the network you create to classify and place people in sick or healthy classes. Do not forget to first divide the data into two categories: training data and test data. For test data, report all classification performance metrics. You are not allowed to use the sklearn library to create the network, but you can use this library to report.

You can access the desired dataset using the link below :

[https://drive.google.com/file/d/12ZhCcXNblPmgFO\\_sm243Pe9yuB5QrBoq/view?usp=sharing](https://drive.google.com/file/d/12ZhCcXNblPmgFO_sm243Pe9yuB5QrBoq/view?usp=sharing)

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2. You have been given another dataset on the history of international football matches. The description of the features of this dataset is on the first sheet and the data is on the second sheet. Run the code you wrote in the previous section on this dataset as well and report all the classification performance metrics.

You can access the desired dataset using the link below:

<https://drive.google.com/file/d/1ru4iEjm2TauaKF8NHye7u7cBXxJ06di/view?usp=sharing>