

Exercise sheet #5

Course: *Machine Learning in Physics (PHYS3151)* – Professor: *Dr. Ziyang Meng*
Due date: *May. 5th, 2022*

1. Neural network and back propagation.

Please download the data from [datasource](#) which contains 768 samples of whether a person has diabetes and his/her health parameters. Now please feed these data to a FNN with one input layer, two hidden layer of 3 and 5 nodes respectively, and one output layer (note that the activation functions for all perceptrons are sigmoid functions), and use back propagation algorithm to train the model to help doctors to do diagnosis.

