Training the ANN with Stochastic Gradient Descent
Step1:
Randomly initialise the weights to small numbers close to 0 BUT not 0
Step2:
Input the first observation of your dataset in the input layer. Each Feature is assigned one Neuron/Node
Step3:
Forward propagation is applied, where the input from left is propagated to the right. Neurons/Nodes are activated depending on the weights and threshold of the activation function
Step4:
Compare the predicted result with the target value. Calculate the error
Step5:
Backpropagation is from right to left. The error is back propagated and the weights are adjusted to how much they are responsible for the error
Step6:
Repeat Steps 1 to 5 and update the weights
Step7:
When the whole training set passed through the ANN, that makes an epoch. Redo more epochs.