Tutorial

- 1. Calculate the output y of a three input neuron with bias. The input feature vector is (x1, x2, x3) = (0.8, 0.6, 0.4) and weight values are [w1, w2, w3, b] = [0.2, 0.1, -0.3, 0.35]. Use binary Sigmoid function as activation function?
- 2. Distinguish between overfitting and underfitting. How can it affect model generalization?
- 3. What is the sequence of the following tasks in a perceptron? Initialize weights of perceptron randomly
 Go to the next batch of dataset
 If the prediction does not match the output, change the weights
 For a sample input, compute an output
- 4. Can you comment on the convergence of the network, if we use a learning rate that's too large?