Assignment 5

Due on 2023-03-10, 23:59

The task is to design a simple feedforward neural network with 5 layers and 2 hidden layers, each containing 10 neurons. The input layer has 4 neurons, corresponding to the features, and the output layer has 1 neuron, representing the class label.

The network should be trained using the mean squared error (MSE) loss function and the Adam optimizer. The learning rate should be 0.001.

The network should be trained on a dataset with 1000 training examples and 100 validation examples.

The training should be performed for 100 epochs.

The task is to implement the network in Python using Keras or TensorFlow.

Good luck!