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E10

The Fisher’s Iris Data would best be used in a Back Propagation Neural Network with 4 neurons being used as the input layer. One hidden layer with a randomized bias between the hidden layer and input layer and one output layer with three neurons for each of the flowers. A sigmoid activation function would also best be used in this instance.

For formatting the data we would have the *training input* that is 4 rows for each feature(sepal length, sepal width, petal length, petal width). The *testing inputs* would be the same, but using 30% of the data set. The *target outputs* would have 3 rows for the three flowers. The *test outputs* would be the same as the target outputs but used to test the accuracy of the target outputs to see how it performs against the trained network. To be trained a minimum of 1000 epochs should be used on the neural network.

Diagram

