Multi layer Perceptron
input | widden units
weight matrix units | will
iii
hidden inputs: np. dot (inputs, weights\_inp\_to\_hidden)

Some numpy tips:

For creating a column vector: data[:, None]

for transposing a matrix: data. T

Backpropagation

same as forward but we assume

the output layer is the input

and compute each layer's error.

 $S_1 = SWf(h1)$   $S_2 = S_0W_2 f'(h2)$