Feed forward (2)

· Given weight matrices $W^2, ..., W^L$ and bias vectors $\vec{b}^2, ..., \vec{b}^L$ at each layer,

· Declare vars:

· A, the list of activations for each layer

· à, the activations in current layer

- à', the activations from previous layer

· Ž, intermediary weighted sum
in current layer

· Add x to A

· a' = x

· For each b, W in bios, weights:

· = Wa' + b

· a = o(=)

· Add a to A

 $\vec{a}' = \vec{a}$

· Return A

Classify (x)

· Declare vars:

. ā, the activations in the last layer after feeding forward

· y, the dassification

 \vec{a} = last item in Feedforward (\vec{x})

· y = argmax ā

· Return y