One hidden layer
Neural Network

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Neural Network
Representation

deeplearning.ai

Neural Network Representation

$a^{[0]} = X$

$a^{[1]}$

$W^{[1]}, b^{[1]}$
$(4,3)$ $(4,1)$

"2 layer NN"

$W^{[2]}, b^{[2]}$
$(1,4)$ $(1,1)$

x_1

x_2

x_3

$a_1^{[1]}$

$a_2^{[1]}$

$a_3^{[1]}$

$a_4^{[1]}$

$a^{[2]}$

$\hat{y} = a^{[2]}$

"$\hat{y} = a$"

$\rightarrow$ Input layer

$\rightarrow$ Hidden layer

$\rightarrow$ Output layer

$a^{[1]} = \begin{bmatrix} a_1^{[1]} \\ a_2^{[1]} \\ \vdots \\ a_4^{[1]} \end{bmatrix}$

Andrew Ng