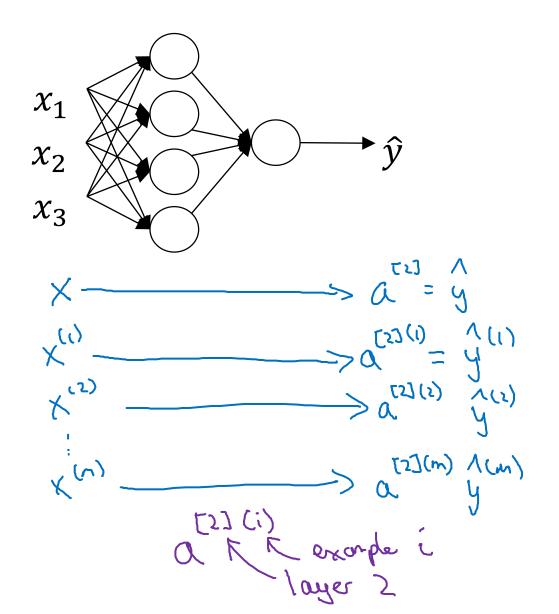


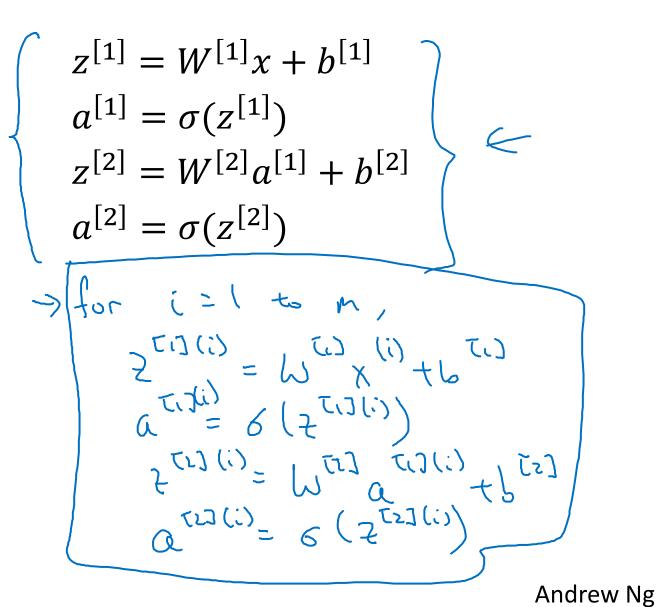
deeplearning.ai

One hidden layer Neural Network

Vectorizing across multiple examples

Vectorizing across multiple examples





Vectorizing across multiple examples

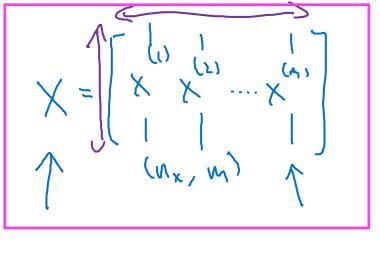
for i = 1 to m:

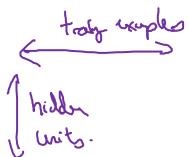
$$z^{[1](i)} = W^{[1]}x^{(i)} + b^{[1]}$$

$$a^{[1](i)} = \sigma(z^{[1](i)})$$

$$z^{[2](i)} = W^{[2]}a^{[1](i)} + b^{[2]}$$

$$a^{[2](i)} = \sigma(z^{[2](i)})$$





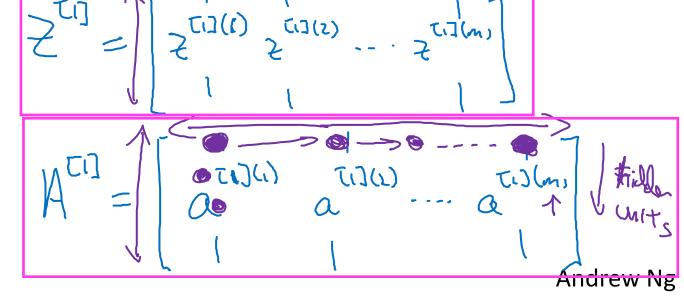
$$Z^{\tau i J} = \omega^{\tau i J} \times + \delta^{\tau i J}$$

$$\Rightarrow A^{\tau i J} = \omega^{\tau i J} \times + \delta^{\tau i J}$$

$$\Rightarrow Z^{\tau i J} = \omega^{\tau i J} \wedge A^{\tau i J} \wedge \delta^{\tau i J}$$

$$\Rightarrow A^{\tau i J} = \omega^{\tau i J} \wedge A^{\tau i J} \wedge \delta^{\tau i J}$$

$$\Rightarrow A^{\tau i J} = \omega^{\tau i J} \wedge \delta^{\tau i J} \wedge \delta^{\tau i J}$$



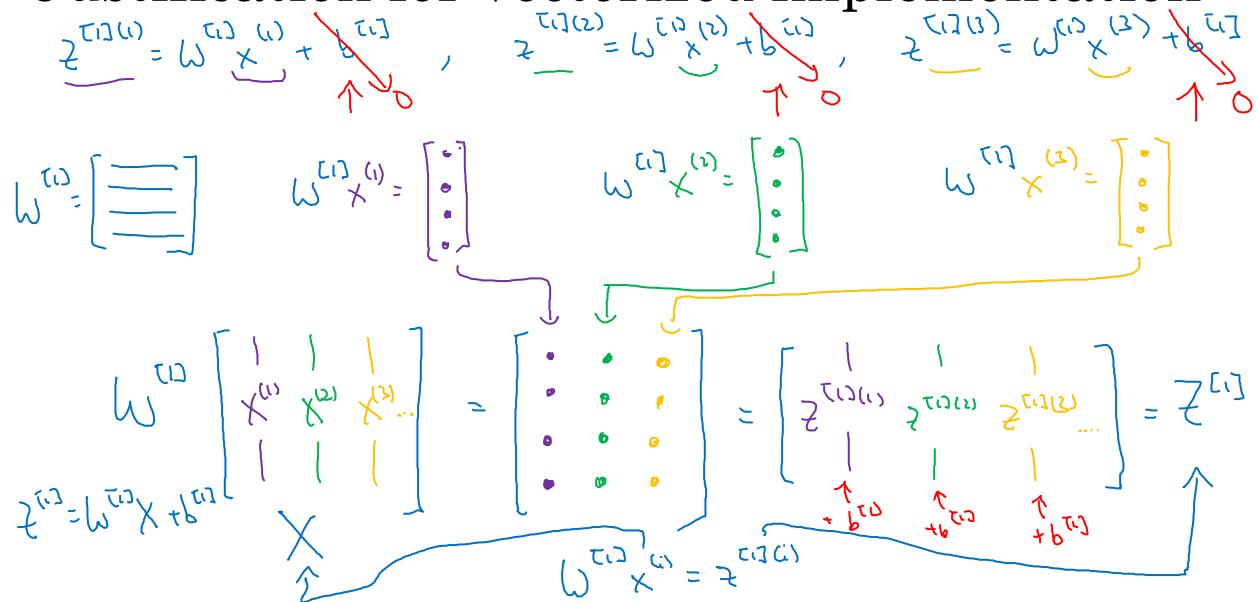


deeplearning.ai

One hidden layer Neural Network

Explanation for vectorized implementation

Justification for vectorized implementation



Recap of vectorizing across multiple examples

