

deeplearning.ai

One hidden layer Neural Network

Gradient descent for neural networks

Gradient descent for neural networks

Parameters:
$$(D^{(1)}, b^{(2)}, b^{(2)}, b^{(2)}, b^{(2)}, b^{(2)})$$
 $(h^{(2)}, h^{(2)}, b^{(2)}, b^{(2)}) = \frac{1}{m} \sum_{i=1}^{m} \chi(\hat{y}, y)$

Corpute product $(\hat{y}^{(i)}, \hat{z}^{(i)}, b^{(2)}, b^{(2)}, b^{(2)}) = \frac{1}{m} \sum_{i=1}^{m} \chi(\hat{y}, y)$

Pepart $\{b^{(i)}, b^{(i)}, \hat{z}^{(i)}, \hat{z}^{(i$

Formulas for computing derivatives

Even of the badding:
$$\begin{aligned}
\xi_{(1)} &= \delta_{(2)}(\xi_{(2)}) = e(\xi_{(2)}) \\
\xi_{(1)} &= \delta_{(2)}(\xi_{(1)}) \leftarrow \\
\xi_{(1)} &= \delta_{(2)}(\xi_{(2)}) \leftarrow \\
\xi_{(2)} &= \delta_{(2)}(\xi_{(2)$$

Back propagation:

$$\begin{aligned}
&\mathcal{Z}^{[2]} = \mathcal{A}^{[2]} = Y \\
&\mathcal{A}^{[1]} = \mathcal{A}^{[2]} = Y
\end{aligned}$$

$$\begin{aligned}
&\mathcal{A}^{[2]} = \mathcal{A}^{[2]} = Y \\
&\mathcal{A}^{[1]} = \mathcal{A}^{[2]} = \mathcal{A}^{[1]} = \mathcal{A}^{[1]} = \mathcal{A}^{[1]} = \mathcal{A}^{[2]} =$$

Andrew Ng