

deeplearning.ai

One hidden layer Neural Network

Gradient descent for neural networks

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Porometrs:
$$(n^{(1)}, n^{(2)})$$
 $(n^{(2)}, n^{(2)})$ $(n^{(2)}, n^{(2)}$

Formulas for computing derivatives

Formal propagation:
$$Z^{(1)} = U_{(1)}X + U_{(1)}$$

$$Z^{(2)} = U_{(2)}X + U_{(1)}$$

$$Z^{(2)} = U_{(2)}X + U_{(2)}$$

Back propagation:

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

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