Neural Network Basics   **coursera**

评分测验 · 30 min

截止时间 Oct 25, 11:59 PM PDT

Logistic Regression as a Neural Network

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Practice Questions

Neural Network Basics

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10 个问题

Neural Network Basics

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再试

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1. What does a neuron compute?

     ○ A neuron computes an activation function followed by a linear function (z = Wx + b)

     ○ A neuron computes a function g that scales the input x linearly (Wx + b)

     ⦿ A neuron computes a linear function (z = Wx + b) followed by an activation function

     ○ A neuron computes the mean of all features before applying the output to an activation function

✅ **正确**

> Correct, we generally say that the output of a neuron is a = g(Wx + b) where g is the activation function (sigmoid, tanh, ReLU, ...).

1/1 分

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2. Which of these is the "Logistic Loss"?

1/1 分

     ○ $\mathcal{L}^{(i)}(\hat{y}^{(i)}, y^{(i)}) = max(0, y^{(i)} - \hat{y}^{(i)})$

     ○ $\mathcal{L}^{(i)}(\hat{y}^{(i)}, y^{(i)}) = \mid y^{(i)} - \hat{y}^{(i)} \mid^2$

     ○ $\mathcal{L}^{(i)}(\hat{y}^{(i)}, y^{(i)}) = \mid y^{(i)} - \hat{y}^{(i)} \mid$

     ⦿ $\mathcal{L}^{(i)}(\hat{y}^{(i)}, y^{(i)}) = -(y^{(i)} \log(\hat{y}^{(i)}) + (1 - y^{(i)}) \log(1 - \hat{y}^{(i)}))$

✅ **正确**