Concept Quiz Over Week 6 Material

Due Nov 12 at 11:59pm   **Points** 1   **Questions** 4
Available Nov 8 at 12am - Nov 12 at 11:59pm   **Time Limit** None

---

Score for this survey: **1** out of 1
Submitted Nov 10 at 1:42pm
This attempt took 3 minutes.

Question 1

Artificial and biological neurons behave identically.

○ True

ou Answered   ◉ False

> False! False! A million times false! Artificial neurons (and neural networks) are inspired by biological neurons but have very very different behavior and computation.

Question 2

A single neuron with a logistic activation can represent non-linear boundaries in classification problems.

ou Answered   ◉ True

○ False

False. A single neuron computes a linear function of its inputs and passes it through a logistic function -- matching logistic regression.

Question 3

What is a loss function?

Your Answer:

the loss function is $(y_{extract} - y_{predicted})^2$

A loss function is a function that measures how bad a network's output is, usually relative to some gold-standard for what the output should be.

Question 4

Networks with Sigmoid activations tend to converge faster than ReLU networks.

○ True

◉ False

False. ReLUs tend to converge faster because they do not saturate for positive inputs like Sigmoid.

ɔu Answered

Survey Score: **1** out of 1