## **Artificial Neural Networks**

## LATEST SUBMISSION GRADE

100%

1. The weights and biases in a neural network are optimized using:

1/1 point

- Activation Descent
- Gradient Descent
- Vanishing Gradient
- Activation Function
- Logistic Descent



Correct

2. For a cost function,  $J=\sum_{i=1}^m (z_i-wx_i-b)^2$ , that we would like to minimize, which of the following expressions represent updating the parameter, w, using gradient descent?

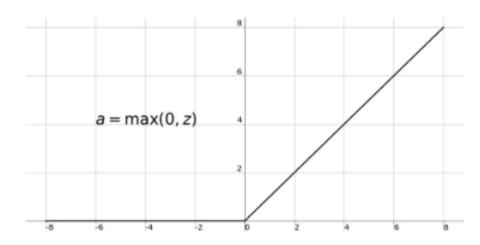
1/1 point

- $\bigcirc w \rightarrow w + b \eta * \frac{\partial J}{\partial w}$
- $\bigcirc w \rightarrow w + \eta * \frac{\partial J}{\partial w}$
- (a)  $w \rightarrow w \eta * \frac{\partial J}{\partial w}$
- $\bigcirc w \rightarrow w \eta * x \frac{\partial J}{\partial w}$
- $\bigcirc w \rightarrow w \eta * b \frac{\partial J}{\partial w}$

Correct

3. What type of activation function is this?

1/1 point



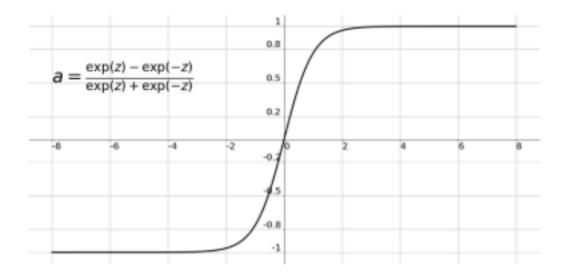
- Hyperbolic Tangent Function
- Leaky ReLU
- Linear Function
- Sigmoid Function
- Binary Function
- ReLU



Correct

4. What type of activation function is this?

1/1 point



- ReLU
- Leaky ReLU
- Binary Function
- Sigmoid Function
- Linear Function
- Hyperbolic Tangent Function

✓ Correct Correct

5. Softmax activation function is most commonly used in hidden layers?

1/1 point

- True
- False

Correct
Correct.