Review Questions

Instructions for Review Questions

1. Time allowed: **Unlimited**

- We encourage you to go back and review the materials to find the right answer
- Please remember that the Review Questions are worth 50% of your final mark.

2. Attempts per question:

- One attempt - For True/False questions
- Two attempts - For any question other than True/False

3. Check your grades in the course at any time by clicking on the "Progress" tab

Review Question 1

1/1 point (graded)

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

- (•) Gradient Descent ✔
- ( ) Vanishing Gradient
- ( ) Activation Function
- ( ) Activation Descent
- ( ) Logistic Descent

Submit You have used 1 of 2 attempts

✔ Correct (1/1 point)

Review Question 2

1/1 point (graded)

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?

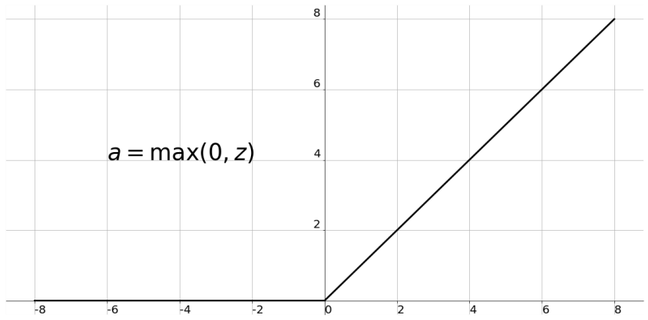
- $w \rightarrow w + b - \eta * \frac{\partial J}{\partial w}$
- $w \rightarrow w + \eta * \frac{\partial J}{\partial w}$
- $w \rightarrow w - \eta * \frac{\partial J}{\partial w}$ ✔
- $w \rightarrow w - \eta * x \frac{\partial J}{\partial w}$
- $w \rightarrow w - \eta * b \frac{\partial J}{\partial w}$

Submit You have used 1 of 2 attempts

✔ Correct (1/1 point)

Review Question 3

1/1 point (graded)



What type of activation function is this?

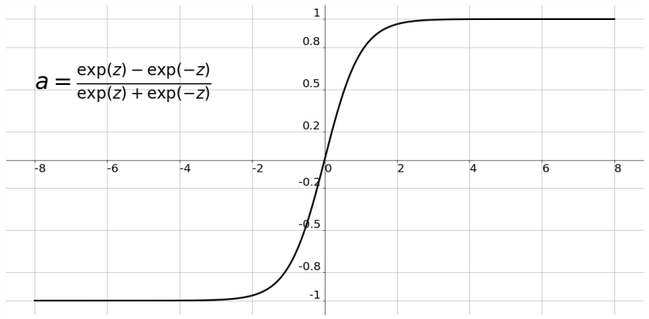
- ReLU ✔
- Binary Function
- Hyperbolic Tangent Function
- Linear Function
- Leaky ReLU
- Sigmoid Function

Submit You have used 1 of 2 attempts

✔ Correct (1/1 point)

Review Question 4

1/1 point (graded)



What type of activation function is this?

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

Submit You have used 1 of 2 attempts

✔ Correct (1/1 point)

Review Question 5

1/1 point (graded)
Softmax activation function is most commonly used in hidden layers?

- True

False ✔

Submit You have used 1 of 1 attempt

✔ Correct (1/1 point)

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