

Assignment-3 (Quiz) - Results



Attempt 2 of 2

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Attempt Score 1.2 / 2 - 60 %

Overall Grade (Highest Attempt) 2 / 2 - 100 %

Question 1

What is the shape of the gradient $\nabla_{\mathbf{w}}(\mathbf{W}\mathbf{x})$ for a 5 x 10-matrix \mathbf{W} and a 10-vector \mathbf{x} ?

- ☐ 10 x 10 x 5
- ☒ 5 x 10 x 10
- ☐ 5 x 10
- ☐ 10 x 5 x 10

Question 2

Which one of the following activation functions clips all negative raw scores to zeros?

- ☐ Sigmoid
- ☐ Leaky ReLU
- ☒ ReLU
- ☐ tanh

Question 3

Which one of the following activation functions does not have the vanishing gradient problem?

- ☐ ReLU
- ☐ tanh
- ☐ Sigmoid
- ☒ Leaky ReLU

Question 4

Which one of the following statements is **not true** about a softmax activation layer in a zero hidden layer neural network architecture?

- ☒ It is fully connected to the dense layer before.
- ☐ It converts raw scores to probabilities.
- ☐ It has the same number of nodes as the dense layer before.
- ☒ It is node-wise connected to the dense layer before.

Question 5

Which one of the following is **not** a hyperparameter for a neural network?

- ☐ Learning rate
- ☐ Number of nodes in the hidden layer
- ☐ Regularization strength
- ☒ Weights

Done