Quiz

1 What is a benefit to using more hidden layers in a neural network?

Your Answer

A) Additional hidden layers allow the model to learn more complex decision boundaries

B) Using more hidden layers will speed up model training

C) A neural network with only a single hidden layer is more computationally expensive

D) Using more hidden layers helps regularize the neural network

2 Why do we use the sigmoid function for binary classification?

A) The sigmoid function converts the model's output into a real number

B) The sigmoid function extracts a bounded absolute value from the model's output

Your Answer

C) The sigmoid function converts the model's output into a probability

D) The sigmoid function is faster to calculate than other functions

3 Which of the following is an example of overfitting?

A) A model is trained until its weights converge, at which point training is halted

Your Answer

B) A model is trained until it reaches 99% accuracy on the training set, but performs poorly on the test set

C) Both A and B

D) None of the above

4 Which of the following statements is true?

A) A single layer (i.e. no hidden layers) neural network can learn non-linear decision boundaries

Your Answer

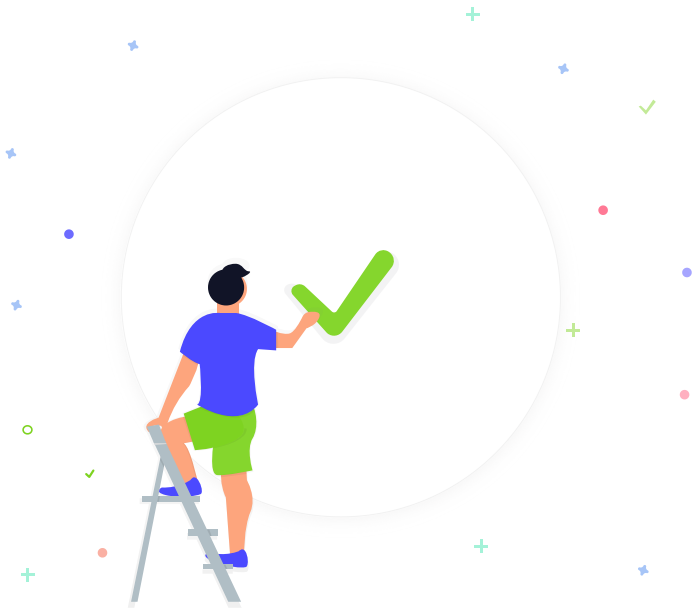
B) The weights of a neural network can be either positive or negative

C) Cross entropy loss is the only loss function used to train neural networks

D) Logits are the output of a neural network, with values strictly between 0 and 1

SUMMARY

Correct	4
Incorrect	0



Awesome! you got all 4 correct!

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