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Lesson Quiz

Answer the following questions to test your knowledge of the concepts and techniques taught in this lesson.

Note: Some of the questions are based on the lab associated with this lesson , so make sure you have explored and run the lab.

Question 1

1/1 point (graded)

When training our Deep Learning models, we need to be careful of which of the following occurring?

Choose all that apply

☒ High bias ✓

☒ High variance ✓

☐ Low bias

☐ Low variance



Explanation

Submit

You have used 1 of 1 attempt

i Answers are displayed within the problem

Question 2

1/1 point (graded)

Which of the following statements are correct?

Choose all that apply

☒ Underfitting refers to a model that can neither fit well to training data nor generalize to new data. ✓☐ Underfitting refers to a model that can not generalize to new data, but is okay with the training data.☒ Underfitting is the same as high bias. ✓☐ Underfitting is the same as high variance.☒ Using a more complex model with greater capacity can help with underfitting ✓☐ Using more training data can help with underfitting☐ Using fewer features can help with underfitting☒ Bias is reduced as model complexity increases. ✓**Explanation**

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i Answers are displayed within the problem**Question 3**

1/1 point (graded)

Which of the following statements are correct?

Choose one

☐ Convolutional Layers calculate the average value over a receptive field.☐ Convolutional Layers calculate the maximum value over a receptive field.

☐ The term Convolutional Layers is another name for Dense Layers.

☐ Non-linearities are need to model linear functions.

☒ Non-linearities allow us to model complex targets. ✓

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You have used 1 of 1 attempt

Question 4

1/1 point (graded)

Which of the following non-linear activation functions is the most commonly used with hidden layers in a CNN?
Choose one.

☒ ReLU ✓

☐ Sigmoid

☐ Tanh

☐ Adam

☐ Momentum

Explanation

The Rectified Linear Unit (ReLU) is the mostly commonly used activation function as it is faster to train and helps with vanishing gradients.

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You have used 1 of 1 attempt

i Answers are displayed within the problem

Question 5

1/1 point (graded)

Given a leaky ReLU activation function as defined in our video on Deep Learning Basics, what is the post activation value if the input is -76?
Choose one.

☐ 0

☐ -76

☐ -7.6

☐ -0.76

☐ 76

☐ 7.6

☒ 0.76

Submit

You have used 1 of 1 attempt

Question 6

1/1 point (graded)

The following is a question based on the lab in this lesson. To the nearest 5% what accuracy did the pre-trained ResNet model get on CIFAR-10?

Choose one

☐ 100%

☐ 95%

☐ 90%

☒ 85% ✓

☐ 80%

Explanation

Submit

You have used 1 of 1 attempt

 Answers are displayed within the problem

Question 7

1/1 point (graded)

The following is a question based on the lab in this lesson. To the nearest 20% what accuracy did our single-epoch trained ResNet model get on CIFAR-10?
Choose one

☒ 40% 

☐ 60%

☐ 80%

☐ 100%

☐ 20%

Explanation

Submit

You have used 1 of 1 attempt

 Answers are displayed within the problem

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