Quiz, 10 questions



Congratulations! You passed!

Next Item



1/1 point

1.

What do you think applying this filter to a grayscale image will do?

$$\begin{bmatrix} 0 & 1 & -1 & 0 \\ 1 & 3 & -3 & -1 \\ 1 & 3 & -3 & -1 \\ 0 & 1 & -1 & 0 \end{bmatrix}$$



1/1 point

2

Suppose your input is a 300 by 300 color (RGB) image, and you are not using a convolutional network. If the first hidden layer has 100 neurons, each one fully connected to the input, how many parameters does this hidden layer have (including the bias parameters)?



1/1 point

3.

Suppose your input is a 300 by 300 color (RGB) image, and you use a convolutional layer with 100 filters that are each 5x5. How many parameters does this hidden layer have (including the bias parameters)?

The basics of published is 63x63x16, and convolve it with 32 filters that are each 770 points (100%)

Quiz, 绿胡姬蚜枣 and no padding. What is the output volume?



1/1 point

5

You have an input volume that is 15x15x8, and pad it using "pad=2." What is the dimension of the resulting volume (after padding)?



1/1 point

6.

You have an input volume that is 63x63x16, and convolve it with 32 filters that are each 7x7, and stride of 1. You want to use a "same" convolution. What is the padding?



1/1 point

7.

You have an input volume that is 32x32x16, and apply max pooling with a stride of 2 and a filter size of 2. What is the output volume?



1/1 point

8

Because pooling layers do not have parameters, they do not affect the backpropagation (derivatives) calculation.



1/1 point

The	9. Pr Dasics of a ken Mets rameter sharing" as a benefit of using convolutional networks which (100%) 16fq the following statements about parameter sharing in ConvNets are true? (Check all that apply.)	
	~	1/1 point

10.

In lecture we talked about "sparsity of connections" as a benefit of using convolutional layers. What does this mean?

