Deep convolutional models

Quiz, 10 questions

1 point	
1. Which of	of the following do you typically see as you move to deeper layers in a et?
	n_H and n_W decreases, while n_C also decreases
	n_H and n_W decrease, while n_C increases
	n_H and n_W increases, while n_C also increases
	n_H and n_W increases, while n_C decreases
2. Which apply.)	of the following do you typically see in a ConvNet? (Check all that
	Multiple CONV layers followed by a POOL layer
	Multiple POOL layers followed by a CONV layer
	FC layers in the last few layers
	FC layers in the first few layers
1 point	

Deep convo	In order to be able to build very deep networks, we usually only use pooling layers to downsize the height/width of the activation volumes while blackswith "valid" padding. Otherwise, we would downsize
Quiz, 10 questions	the input of the model too quickly.
,	True
	False
	1 point 4. Training a deeper network (for example, adding additional layers to the network) allows the network to fit more complex functions and thus almost always results in lower training error. For this question, assume we're referring to "plain" networks. True False
	$1\\ \text{point}$ 5. The following equation captures the computation in a ResNet block. What goes into the two blanks above? $a^{[l+2]}=g(W^{[l+2]}g(W^{[l+1]}a^{[l]}+b^{[l+1]})+b^{l+2}+____)+____$
	$igcup 0$ and $a^{[l]}$, respectively
	$\bigcirc \hspace{0.1in} 0$ and $z^{[l+1]}$, respectively

 $\int z^{[l]}$ and $a^{[l]}$, respectively

 $a^{[l]}$ and 0, respectively

point

6.

Deep convo	Which Which	ones of the following statements on Residual Networks are true? நூர் நடித்தி
Quiz, 10 questions		Using a skip-connection helps the gradient to backpropagate and thus helps you to train deeper networks
		A ResNet with L layers would have on the order of L^2 skip connections in total.
		The skip-connections compute a complex non-linear function of the input to pass to a deeper layer in the network.
		The skip-connection makes it easy for the network to learn an identity mapping between the input and the output within the ResNet block.
	1 point	
		se you have an input volume of dimension 64x64x16. How many
	param	eters would a single 1x1 convolutional filter have (including the bias)?
		4097
		1
		17
		2
	1 point	t
	the foll	se you have an input volume of dimension n_H x n_W x n_C . Which of owing statements you agree with? (Assume that "1x1 convolutional pelow always uses a stride of 1 and no padding.)
		You can use a 1x1 convolutional layer to reduce n_H , n_W , and n_C .
		You can use a pooling layer to reduce n_H , n_W , but not n_C .

The same techniques for winning computer vision competitions, such as using multiple crops at test time, are widely used in practical deployments (or production system deployments) of

ConvNets.

Quiz, 10 questions	rolutional models way to get working an implementation of a complex ConvNet architecture.	
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