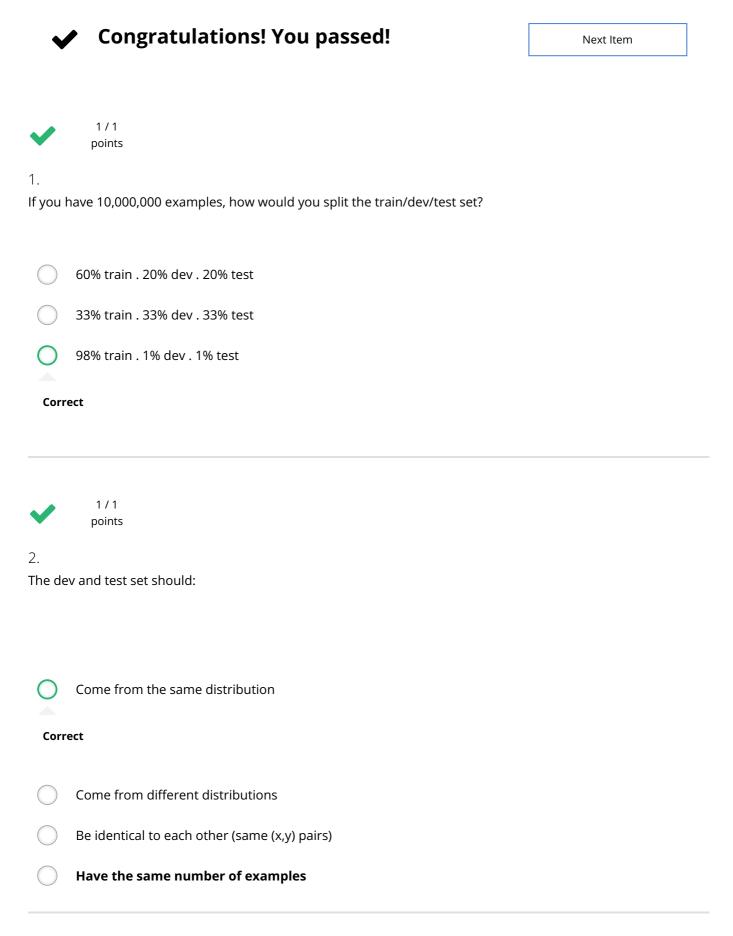
Practical aspects of deep learning

Quiz, 10 questions



Practical aspects of deep learning

Quiz, 10 questions	
3.	
If your Neural Network model seems to have high variance, what of the following would be promising thing	s to
try?	
Make the Neural Network deeper	
Make the Neural Network deeper	
Un-selected is correct	
Add regularization	
Correct	
Get more test data	
Un-selected is correct	
Increase the number of units in each hidden layer	
Un-selected is correct	
Get more training data	
Correct	
Correct	
1/1	
points	
4.	
	_
You are working on an automated check-out kiosk for a supermarket, and are building a classifier for apples bananas and oranges. Suppose your classifier obtains a training set error of 0.5%, and a dev set error of 7%	
Which of the following are promising things to try to improve your classifier? (Check all that apply.)	•
which of the following are profitising things to try to improve your classifier. (check an triat apply.)	
Increase the regularization parameter lambda	
Increase the regularization parameter lambda	
Increase the regularization parameter lambda Correct	
Correct	
Correct	

g

Practical aspects of deep learning
Quiz, 10 questions Correct

Use a bigger neural network						
Un-s	Un-selected is correct					
~	1 / 1 points					
5.						
What i	s weight decay?					
	A technique to avoid vanishing gradient by imposing a ceiling on the values of the weights.					
	Gradual corruption of the weights in the neural network if it is trained on noisy data.					
	The process of gradually decreasing the learning rate during training.					
0	A regularization technique (such as L2 regularization) that results in gradient descent shrinking the weights on every iteration.					
Corr	ect					
~	1 / 1 points					
_	ponts					
6. What h	nappens when you increase the regularization hyperparameter lambda?					
0	Weights are pushed toward becoming smaller (closer to 0)					
Corr	ect					
	Weights are pushed toward becoming bigger (further from 0)					
	Doubling lambda should roughly result in doubling the weights					
	Gradient descent taking bigger steps with each iteration (proportional to lambda)					

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/.					
With th	ne inverted dropout technique, at test time:				
0	You do not apply dropout (do not randomly eliminate units) and do not keep the 1/keep_prob factor in the calculations used in training				
Corr	rect				
	You do not apply dropout (do not randomly eliminate units), but keep the 1/keep_prob factor in the calculations used in training.				
	You apply dropout (randomly eliminating units) and do not keep the 1/keep_prob factor in the calculations used in training				
	You apply dropout (randomly eliminating units) but keep the 1/keep_prob factor in the calculations used in training.				
~	1/1 points				
8.					
increa	sing the parameter keep_prob from (say) 0.5 to 0.6 will likely cause the following: (Check the two that apply)				
	Increasing the regularization effect				
Un-s	selected is correct				
	Reducing the regularization effect				
Corr	rect				
	Causing the neural network to end up with a higher training set error				
Un-s	selected is correct				
J 5					
	Causing the neural network to end up with a lower training set error				
Corr	rect				

Practical respects of deep learning

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niz, 10 questions				
Which of these techniques are useful for reducing variance (reducing overfitting)? (Check all that apply.)				
L2 regularization				
Correct				
Exploding gradient				
Un-selected is correct				
Vanishing gradient				
Un-selected is correct				
Dropout				
Correct				
Data augmentation				
Correct				
Xavier initialization				
Un-selected is correct				
Gradient Checking				
Un-selected is correct				
1/1 points				
10. Why do we permalize the inputs #3				
Why do we normalize the inputs x ?				
It makes the parameter initialization faster				

27/09/2018	Improving Deep Neural Networks: Hyperparameter tuning, Regularization and Optimization - Home Coursera
O Practic	Normalization is another word for regularizationIt helps to reduce variance all aspects of deep learning
Quiz, 10que	edtionakes the cost function faster to optimize
Corre	ect
	It makes it easier to visualize the data
₽ [