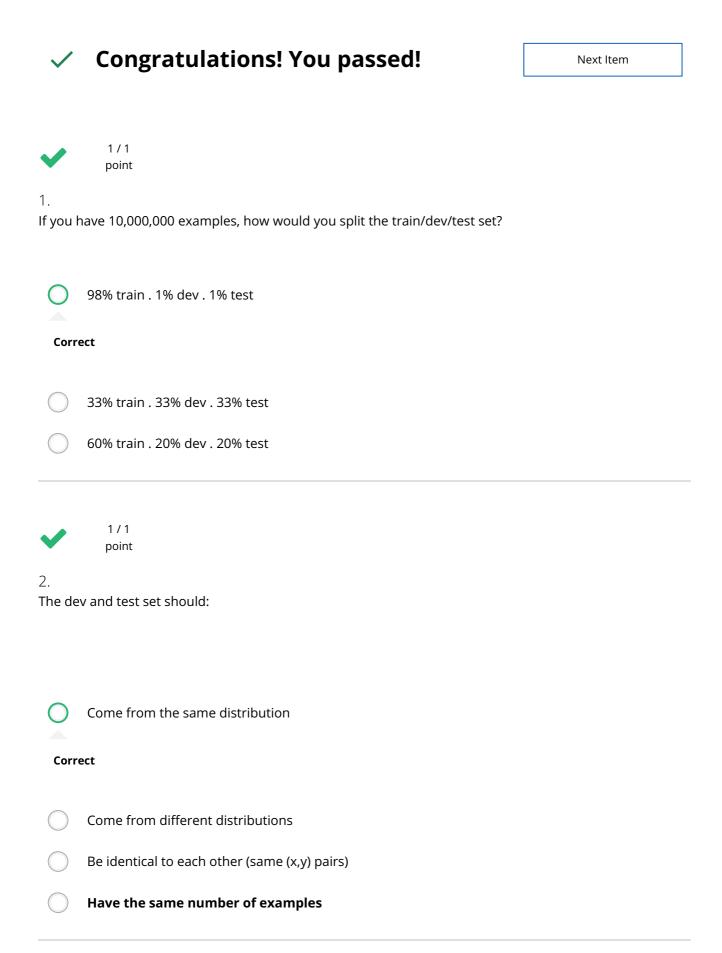
Practical aspects of deep learning

Quiz, 10 questions

8/10 points (80%)



Practical aspects of deep learning Quiz, 10 questions

8/10 points (80%)

β . If your Neural Network model seems to have high variance, what of the following would be promising things to try?				
	Add regularization			
Correct				
	Get more test data			
This should not be selected				
	Increase the number of units in each hidden layer			
Un-selected is correct				
	Make the Neural Network deeper			
Un-selected is correct				
	Get more training data			
This should be selected				
×	0 / 1 point			
apples,	e working on an automated check-out kiosk for a supermarket, and are building a classifier for bananas and oranges. Suppose your classifier obtains a training set error of 0.5%, and a dev set f 7%. Which of the following are promising things to try to improve your classifier? (Check all that			
	Increase the regularization parameter lambda			
This should be selected				
	Decrease the regularization parameter lambda			

PractItiaIhautpettesetteep learning Quiz, 10 questions 8/10 points (80%)		
	Get more training data	
Corre	ect	
Con		
	Use a bigger neural network	
Un-s	elected is correct	
5.1.5		
	1/1	
	point	
5. Wha t is	s weight decay?	
	The process of gradually decreasing the learning rate during training.	
\bigcirc	A regularization technique (such as L2 regularization) that results in gradient descent	shrinking
	the weights on every iteration.	3N
Corr	ect	
	Gradual corruption of the weights in the neural network if it is trained on noisy data.	
	A technique to avoid vanishing gradient by imposing a ceiling on the values of the wei	ghts.
~	1/1 point	
6. Wha t h	nappens when you increase the regularization hyperparameter lambda?	
	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)
Practical aspects of deep learning

8/10 points (80%) Quiz, 10 questions

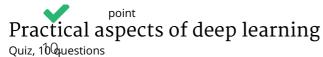
~	1/1 point		
7. With th	ne inverted dropout technique, at test time:		
	You apply dropout (randomly eliminating units) but keep the 1/keep_prob factor in the calculations used in training.		
	You apply dropout (randomly eliminating units) and do not keep the 1/keep_prob factor in the calculations used in training		
	You do not apply dropout (do not randomly eliminate units), but keep the 1/keep_prob factor in the calculations used in training.		
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	ect		
~	1/1 point		
8. Increasing 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-selected is correct			
	Reducing the regularization effect		
Correct			
	Causing the neural network to end up with a higher training set error		
Un-selected is correct			
	Causing the neural network to end up with a lower training set error		

Practitatespects of deep learning

Quiz, 10 questions

8/10 points (80%)

1/1 point			
9. Which of these techniques are useful for reducing variance (reducing overfitting)? (Check all that apply.)			
Vanishing gradient			
Un-selected is correct			
L2 regularization			
Correct			
Exploding gradient			
Un-selected is correct			
Dropout			
Correct			
Xavier initialization			
Un-selected is correct			
Gradient Checking			
Un-selected is correct			
Data augmentation			
Correct			



8/10 points (80%)

Why do we normalize the inputs x?

0	It makes the cost function faster to optimize	
Correct		
	It makes it easier to visualize the data	
	Normalization is another word for regularizationIt helps to reduce variance	
	It makes the parameter initialization faster	

