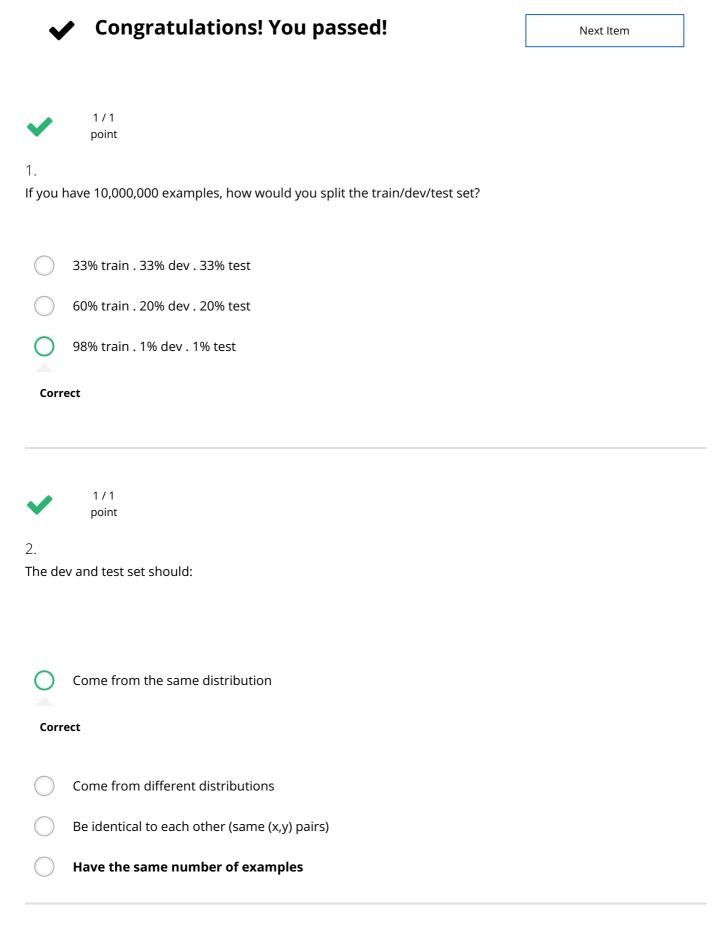
Quiz, 10 questions



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3.
If your Neural Network model seems to have high variance, what of the following would be promising things to
try?
Get more test data
det more test data
Un-selected is correct
Make the Neural Network deeper
Un-selected is correct
On-Selected is correct
Get more training data
Correct
Increase the number of units in each hidden layer
Un-selected is correct
Add regularization
Correct
1/1
point
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.)
Increase the regularization parameter lambda
Correct
Decrease the regularization parameter lambda
Decrease the regularization parameter lambda
Un-selected is correct

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Quiz, 10 questions	
Correct	

-								
	Use a bigger neural network							
Un-s	Un-selected is correct							
~	1 / 1 point							
5.								
What is	s weight decay?							
	The process of gradually decreasing the learning rate during training.							
	Gradual corruption of the weights in the neural network if it is trained on noisy data.							
0	A regularization technique (such as L2 regularization) that results in gradient descent shrinking the weights on every iteration.							
Corr	ect							
	A technique to avoid vanishing gradient by imposing a ceiling on the values of the weights.							
~	1 / 1 point							
6.								
What r	appens when you increase the regularization hyperparameter lambda?							
O	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)							

Quiz, 10 questions

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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	ect
	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.
	You apply dropout (randomly eliminating units) but keep the 1/keep_prob factor in the calculations used in training.
~	1 / 1 point
0	
8.	
increas	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	elected is correct
	Reducing the regularization effect
Cour	
Corr	
	Causing the neural network to end up with a higher training set error
Un-s	elected is correct
	Causing the neural network to end up with a lower training set error
Ca:	
Corr	

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Practical	espects	of deep	learning

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uiz 10 questions
Which of these techniques are useful for reducing variance (reducing overfitting)? (Check all that apply.)
Dropout
Correct
Data augmentation
Correct
Vanishing gradient
Un-selected is correct
Exploding gradient
Un-selected is correct
Xavier initialization
Un-selected is correct
L2 regularization
Correct
Gradient Checking
Un-selected is correct
1/1 point
10. Why do we normalize the inputs x ?
Normalization is another word for regularizationlt helps to reduce variance