✓ Congratulations! You passed!

Next Item



1/1 points

1.

If you have 10,000,000 examples, how would you split the train/dev/test set?

- 60% train . 20% dev . 20% test
- 98% train . 1% dev . 1% test

Correct

33% train . 33% dev . 33% test



1/1 points

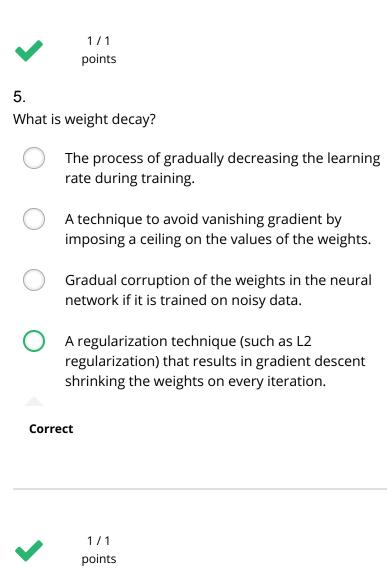
2.

The dev and test set should:

0	Come from the same distribution
Corr	ect
	Come from different distributions
	Be identical to each other (same (x,y) pairs)
	Have the same number of examples
	1/1
2	points
what c	Neural Network model seems to have high bias, of the following would be promising things to try? all that apply.)
	Increase the number of units in each hidden layer
Corr	ect
	Make the Neural Network deeper
Corr	ect
	Get more test data
Un-s	selected is correct
	Get more training data

Un-selected is correct Add regularization Un-selected is 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.) Increase the regularization parameter lambda Correct Decrease the regularization parameter lambda Un-selected is correct Get more training data Correct Use a bigger neural network

Un-selected is correct



6.

What happens when you increase the regularization hyperparameter lambda?

Weights are pushed toward becoming smaller (closer to 0)

Correct

	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)	
✓ 7.	1/1 points	
	ne inverted dropout technique, at test time:	
	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.	
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	
Correct		

8.	
	ing the parameter keep_prob from (say) 0.5 to 0.6 ly cause the following: (Check the two that apply)
	Increasing the regularization effect
Un-se	elected is correct
	Reducing the regularization effect
Corre	ct
	Causing the neural network to end up with a higher training set error
Un-se	elected is correct
	Causing the neural network to end up with a lower training set error
Corre	ct
~	1 / 1 points
	of these techniques are useful for reducing variance ng overfitting)? (Check all that apply.)
	Xavier initialization
Un-se	elected is correct

	Data augmentation	
Correct		
	Vanishing gradient	
Un-selected is correct		
	Exploding gradient	
Un-s	elected is correct	
	L2 regularization	
Correct		
	Dropout	
Correct		
	Gradient Checking	
Un-selected is correct		
~	1/1 points	
10. Why do	o we normalize the inputs x ?	

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

