Quiz, 10 questions

~	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?

0

98% train . 1% dev . 1% test



Correct

- 60% train . 20% dev . 20% test
- 33% train . 33% dev . 33% test



1/1 points

2.

The dev and test set should:

O Come from the same distribution

Correct

- O Come from different distributions
- O Be identical to each other (same (x,y) pairs)

O Have the same number of examples Practical aspects of deep learning

Quiz, 10 questions

~	1 / 1 points
_	Neural Network model seems to have high bias, what of the following be promising things to try? (Check all that apply.)
	Increase the number of units in each hidden layer
Corre	ect
	Get more training data
Un-se	elected is correct
	Make the Neural Network deeper
Corre	ect
	Add regularization
Un-s	elected is correct
	Get more test data
Un-se	elected is correct



0 / 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 Practical aspects of deep learning

Quiz, 10 questions

This should be selected

9/10 points (90%)

	Decrease the regularization parameter lambda		
This	should not be selected		
	Get more training data		
Corr	Correct		
	Use a bigger neural network		
This	should not be selected		
~	1 / 1 points		
5. What is	s weight decay?		
0	A regularization technique (such as L2 regularization) that results in gradient descent shrinking the weights on every iteration.		
Corr	ect		
0	A technique to avoid vanishing gradient by imposing a ceiling on the values of the weights.		
0	Gradual corruption of the weights in the neural network if it is trained on noisy data.		
0	The process of gradually decreasing the learning rate during training.		
~	1/1 points		

What happens when you increase the regularization hyperparameter lambda? Practical aspects of deep learning 9/10 points (90%) 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) 1/1 points 7. With the 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) and do not keep the 1/keep_prob factor in the calculations used in training Correct 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 points 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

Data augmentation

Practical aspects of deep learning Quiz, 10 questions

9/10 points (90%)

	Gradient Checking			
Un-selected is correct				
	Xavier initialization			
Un-selected is correct				
~	1 / 1 points			
10. Why d	o we normalize the inputs x ?			
0	It makes the parameter initialization faster			
0	Normalization is another word for regularizationlt helps to reduce variance			
0	It makes the cost function faster to optimize			
Correct				
0	It makes it easier to visualize the data			





