Quiz, 10 questions

~	Congra	atulations! You passed!	Next Item
	1. If you set?	1 / 1 points have 10,000,000 examples, how would you split the trai	n/dev/test
	Corr	33% train . 33% dev . 33% test 60% train . 20% dev . 20% test 98% train . 1% dev . 1% test ect	
	2. The de	1 / 1 points ev and test set should:	
	Corr	Come from the same distribution	

Come from different distributions

Be identical to each other (same (x,y) pairs)

Have the same number of examples Practical aspects of deep learning

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V	1 / 1 points			
	Neural Network model seems to have high bias, what of the ng would be promising things to try? (Check all that apply.)			
	Get more training data			
Un-selected is correct				
	Increase the number of units in each hidden layer			
Corr	ect			
	Add regularization			
Un-s	Un-selected is correct			
	Get more test data			
Un-s	Un-selected is correct			
	Make the Neural Network deeper			
Corr	ect			
~	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
mereuse the regularization parameter lambae

Practical aspects of deep learning

10/10 points (100%)

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	Decrease the regularization parameter lambda					
Un-selected is correct						
	Get more training data					
Corre	ect					
	Use a bigger neural network					
Un-se	elected is correct					
	1/1					
	points					
j.						
Vhat is	s weight decay?					
	The process of gradually decreasing the learning rate during training.					
	A technique to avoid vanishing gradient by imposing a ceiling on the values of the weights.					
0	A regularization technique (such as L2 regularization) that results in gradient descent shrinking the weights on every					
	iteration.					
Corre	ect					
	Gradual corruption of the weights in the neural network if it is trained on noisy data.					



What happens when you increase the regularization hyperparameter Practical aspects of deep learning

10/10 points (100%)

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stions	0	Weights are pushed toward becoming smaller (closer to 0)	
	Corr		
		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 th	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 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	
	Corr	ect	
		You do not apply dropout (do not randomly eliminate 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
mercasing the regularization enect

Practical aspects of deep learning

Quiz, 10 questions

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 Correct 1/1 points 9. Which of these techniques are useful for reducing variance (reducing overfitting)? (Check all that apply.) Data augmentation Correct Exploding gradient **Un-selected is correct Gradient Checking Un-selected is correct**

Xavier initialization

10/10 points (100%)

Un-selected is correct

Practical aspects of deep learning

10/10 points (100%)

ractical aspe	CUS	or deep rearring	10/
Quiz, 10 questions		Vanishing gradient	
	Un-se	elected is correct	
		L2 regularization	
	Corre	ect	
		Dropout	
	Corre	ect	
•		1/1 points	
10).		
		we normalize the inputs x ?	
(Normalization is another word for regularizationlt 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	
	Corre	ect	







Practical aspects of deep learning

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10/10 points (100%)