## Practical aspects of deep learning

10/10 points (100%)

Quiz, 10 questions

<b>~</b>	Congra	atulations! You passed!	Next Item
	<b>~</b>	1 / 1 points	
	1. If you	have 10,000,000 examples, how would you split the train/	dev/test set?
		33% train . 33% dev . 33% test	
	0	98% train . 1% dev . 1% test	
	Corr	ect	
		60% train . 20% dev . 20% test	
	<b>~</b>	1 / 1 points	

2. Th

The dev and test set should:

Come from the same distribution

Correct



## Practical aspects of ideap learning (same (x,y) pairs)

10/10 points (100%)

Quiz,	10	questions
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5/17/2018

Have the same number of examples



1/1 points

3.

If your Neural Network model seems to have high bias, what of the following would be promising things to try? (Check all that apply.)

Increase the number of units in each hidden layer

Correct

Get more training data

**Un-selected is correct** 

Make the Neural Network deeper

Correct

Get more test data

**Un-selected is correct** 

Add regularization

**Un-selected is correct** 



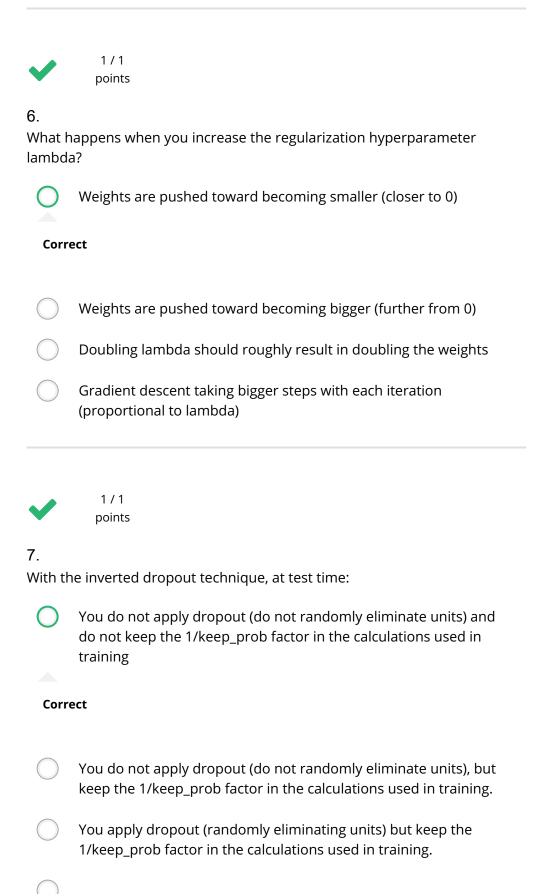
1/1 points 4

	т.				
Practical as	rectriont <sup>e</sup> deebiye	automated check-out kiosk for a supermarket, and 10/10 points (100%)			
Quiz, 10 questions	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 re	egularization parameter lambda			
	Correct				
	Decrease the i	regularization parameter lambda			
	Un-selected is correct	t.			
	Get more train	ning data			
	Correct				
	Use a bigger n	neural network			
	Un-selected is correct	E CONTRACTOR OF THE PROPERTY O			
	1/1 points				
	5. What is weight decay?				
	Gradual corru trained on noi	ption of the weights in the neural network if it is sy data.			
	The process of training.	f gradually decreasing the learning rate during			
	A technique to the values of t	o avoid vanishing gradient by imposing a ceiling on the weights.			
		on technique (such as L2 regularization) that results scent shrinking the weights on every iteration.			

## Practical aspects of deep learning

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Quiz, 10 questions



You apply dropout (randomly eliminating units) and do not keep the 1/keep prob factor in the calculations used in training

# the 1/keep\_prob factor in the calculations used in training $Practical\ aspects\ of\ deep\ learning$

10/10 points (100%)

Quiz, 10 questions

	1/1
	points
	sing the parameter keep_prob from (say) 0.5 to 0.6 will likely cause the ng: (Check the two that apply)
	Increasing the regularization effect
Un-s	elected is correct
	Reducing the regularization effect
Corre	ect
	Causing the neural network to end up with a higher training set error
Un-s	elected is correct
Corre	Causing the neural network to end up with a lower training set error
Corr	
<b>~</b>	1 / 1 points
	of these techniques are useful for reducing variance (reducing ting)? (Check all that apply.)
	Xavier initialization

#### **Un-selected is correct**

### Practical aspects of deep learning

10/10 points (100%)

	1	1	8		ior io points (
Quiz, 10 questions		Data augmentation			
	Corr	ect			
		L2 regularization			
	Corr	ect			
		Gradient Checking			
	Un-s	elected is correct			
		Dropout			
	Corr	ect			
		Exploding gradient			
	Un-s	elected is correct			
		Vanishing gradient			
	Un-s	elected is correct			
	<b>~</b>	1 / 1 points			
	10. Why d	o we normalize the inp	outs $x$ ?		
		It makes the parame		er	
		It makes it easier to v			

Practical asp	Normalization is another word for regularizationIt helps to pects of deepidearning	10/10 points (100%)
Quiz, 10 questions	It makes the cost function faster to optimize	
	Correct	