## Practical aspects of deep learning

Quiz, 10 questions

10/10 points (100%)

<b>✓</b>	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
- 33% train . 33% dev . 33% test
- 98% train . 1% dev . 1% test

Correct



1/1 points

2.

The dev and test set should:

Come from the same distribution

Correct

Come from different distributions

	Have the same number of examples	
<b>~</b>	1/1 points	
	Neural Network model seems to have high variance, what of the following be promising things to try?	
	Get more training data	
Corr	ect	
	Make the Neural Network deeper	
Un-s	selected is correct	
	Get more test data	
Un-s	selected is correct	
	Increase the number of units in each hidden layer	
Un-s	selected is correct	
	Add regularization	
Corr	ect	



points

10/9/2017 Coursera | Online Courses From Top Universities. Join for Free Practical aspects of ideap learning check-out kiosk for a supermarket, and are 10/10 points (100%) Quiz, 10 questions 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 1/1 points 5. What is 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.

A technique to avoid vanishing gradient by imposing a ceiling on the

A regularization technique (such as L2 regularization) that results in

gradient descent shrinking the weights on every iteration.

https://www.coursera.org/learn/deep-neural-network/exam/B9JXg/practical-aspects-of-deep-learning

values of the weights.

## Practical aspects of deep learning Quiz, 10 questions

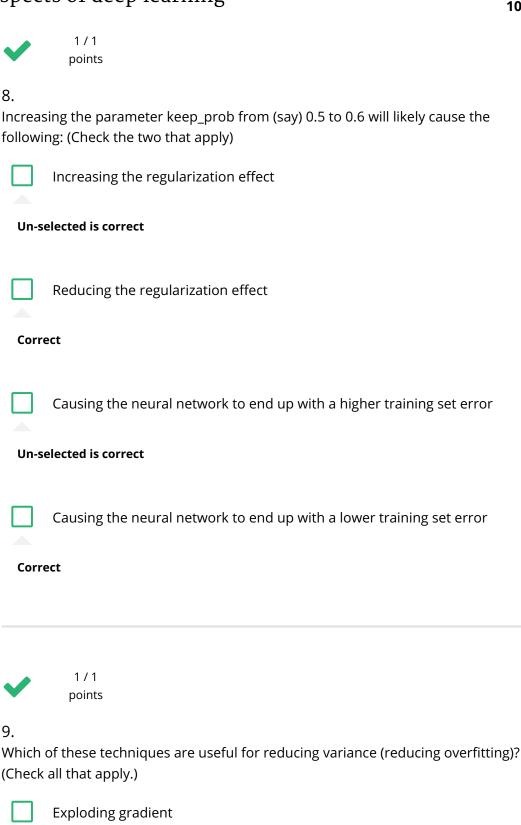
10/10 points (100%)

<b>~</b>	1 / 1 points			
6.				
What happens when you increase the regularization hyperparameter lambda?				
0	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)			
<b>~</b>	1/1 points			
7. With the 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			
Correct				
	You apply dropout (randomly eliminating units) but keep the 1/keep_prob factor in the calculations used in training.			
	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.			

## Practical aspects of deep learning

10/10 points (100%)

Quiz, 10 questions



**Un-selected is correct** 

Vanishing gradient

## Practical aspects of ideap tlearning Quiz, 10 questions

10/10 points (100%)

Un-se	Xavier initialization elected is correct
	L2 regularization
Corre	Gradient Checking
Un-se	elected is correct
	Dropout
Corre	ect
Corre	Data augmentation
<b>~</b>	1 / 1 points
10. Why do	o we normalize the inputs $x$ ?
	It makes the parameter initialization faster
	Normalization is another word for regularizationlt helps to reduce variance
0	It makes the cost function faster to optimize