## Practical aspects of deep learning

9/10 points (90.00%)

Quiz, 10 questions

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



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3	our appears of deep rearring	or to points (90.00
Quiz, 10 qu If your try?	uestions r Neural Network model seems to have high variance, what of the following would be prom	ising things to
	Get more training data	
Corr	rect	
	Make the Neural Network deeper	
Un-s	selected is correct	
	Add regularization	
Corr	rect	
	Get more test data	
Un-s	selected is correct	
Un-s	Increase the number of units in each hidden layer selected is correct	
<b>~</b>	1/1 points	
banan	re working on an automated check-out kiosk for a supermarket, and are building a classifie has and oranges. Suppose your classifier obtains a training set error of 0.5%, and a dev set of the following are promising things to try to improve your classifier? (Check all that apply	error of 7%.
	Increase the regularization parameter lambda	
Corr	rect	
	Decrease the regularization parameter lambda	
lln c	soloctod is correct	

04/09/2018	Improving Deep Neural Networks: Hyperparameter tuning, Regularization and Optimization - Home   Coursera Get more training data						
Practic Corr Quiz, 10 qu	cal aspects of deep learning 9/10 points (90.00%) estions						
	Use a bigger neural network						
Un-selected is correct							
5.	1/1 points						
-	s weight decay?						
	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.						
Corr	ect						
	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.						
<b>~</b>	1 / 1 points						
6. What h	nappens when you increase the regularization hyperparameter lambda?						
0	Weights are pushed toward becoming smaller (closer to 0)						
Corr	ect						
	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)						

Practic	9/10 points (90.00%)	
Quiz, 10 qu	estions You do not apply dropout (do not randomly eliminate units) and do not keep the 1/keep the calculations used in training	o_prob factor in
Corre	ect	
	You do not apply dropout (do not randomly eliminate units), but keep the 1/keep_prob calculations used in training.	factor in the
	You apply dropout (randomly eliminating units) and do not keep the 1/keep_prob factor calculations used in training	in the
	You apply dropout (randomly eliminating units) but keep the 1/keep_prob factor in the cin training.	calculations used
×	0 / 1 points	
8. Increas	sing the parameter keep_prob from (say) 0.5 to 0.6 will likely cause the following: (Check t	he two that apply)
	Increasing the regularization effect	
Un-se	elected is correct	
	Reducing the regularization effect	
Corre	ect	
	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	
This	should be selected	
	1/1	

points

9.

Which of these techniques are useful for reducing variance (reducing overfitting)? (Check all that apply Practical aspects of deep learning 9/10 g	ooints (90.00%)
Un-selected is correct	
Gradient Checking	
Un-selected is correct	
Xavier initialization	
Un-selected is correct	
Dropout	
Correct	
Data augmentation  Correct	
Correct	
L2 regularization	
Correct	
Exploding gradient	
Un-selected is correct	
1/1	
points  10.	
Why do we normalize the inputs $x$ ?	
Normalization is another word for regularizationIt helps to reduce variance	
O It makes the cost function faster to optimize  Correct	

## Practical mass percession for disequizher than g

9/10 points (90.00%)

Quiz, 10 questions lt makes the parameter initialization faster



