Practical aspects of deep learning

9/10 points (90%)

Quiz, 10 questions

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

Come from the same distribution



Correct

Come from different distributions

	pects of idea an ingr (same (x,y) pairs)	9/10 points (90%)
uiz, 10 questions	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.)	3
	Get more training data	
	Un-selected is correct	
	Add regularization	
	Un-selected is correct	
	Increase the number of units in each hidden layer	
	Correct	
	Get more test data	
	Un-selected is correct	
	Make the Neural Network deeper	
	Correct	



1/1 points

Coursera | Online Courses From Top Universities. Join for Free | Coursera 4. You are working on an automated check-out kiosk for a supermarket, and Practical aspects of despite annings, bananas and oranges. Suppose your 9/10 points (90%) classifier obtains a training set error of 0.5%, and a dev set error of 7%. Quiz, 10 questions 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 What is 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.

> A regularization technique (such as L2 regularization) that results in gradient descent shrinking the weights on every iteration.

Gradual corruption of the weights in the neural network if it is

trained on noisy data.

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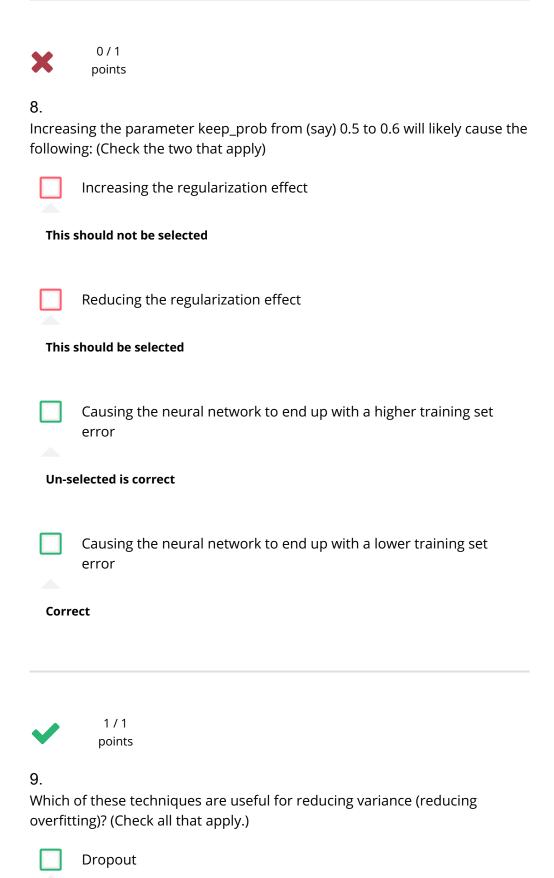
~	1 / 1 points
6. What h lambd	nappens when you increase the regularization hyperparameter a?
0	Weights are pushed toward becoming smaller (closer to 0)
Corr	ect
	Weights are pushed toward becoming bigger (further from 0)
	Doubling lambda should roughly result in doubling the weights
	Gradient descent taking bigger steps with each iteration (proportional to lambda)
~	1/1 points
7. With th	ne inverted dropout technique, at test time:
	You apply dropout (randomly eliminating units) but 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.
	You apply dropout (randomly eliminating units) and do not 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

Correct

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Quiz, 10 questions



Correct

Practical aspects of deep learning 9/10 points (90%) Data augmentation Quiz, 10 questions Correct Xavier initialization **Un-selected is correct** Exploding gradient **Un-selected is correct** Vanishing gradient **Un-selected is correct Gradient Checking Un-selected is correct** L2 regularization Correct 1/1 points 10. Why do we normalize the inputs x? It makes the cost function faster to optimize Correct