Have the same number of examples

Congratulations! You passed! Next Item 1/1 point If you have 10,000,000 examples, how would you split the train/dev/test set? 33% train . 33% dev . 33% test 60% train . 20% dev . 20% test 98% train . 1% dev . 1% test Correct 1/1 point The dev and test set should: Come from the same distribution Correct Come from different distributions Be identical to each other (same (x,y) pairs)

Practical of spects of deep learning

Un-selected is correct

Quiz, 10 questions	
3.	
If your Neural (Check all that	Network model seems to have high bias, what of the following would be promising things to try: apply.)
Make 1	the Neural Network deeper
This should b	e selected
Add re	gularization
This should n	ot be selected
Increa	se the number of units in each hidden layer
This should b	e selected
Get me	ore training data
This should n	ot be selected
Get me	ore test data
Un-selected i	s correct
1/ poir	
bananas and c	ng on an automated check-out kiosk for a supermarket, and are building a classifier for apples, oranges. Suppose your classifier obtains a training set error of 0.5%, and a dev set error of 7%. ollowing are promising things to try to improve your classifier? (Check all that apply.)
Increa	se the regularization parameter lambda
Correct	
Decrea	ase the regularization parameter lambda

Quiz,	10	questions
	c	rrect

	Use a bigger neural network				
Un-s	Un-selected is correct				
~	1 / 1 point				
5.					
What is	s weight decay?				
	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.				
Corre	oct				
Corr					
	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.				
~	1 / 1 point				
6.					
What h	nappens when you increase the regularization hyperparameter lambda?				
	Weights are pushed toward becoming smaller (closer to 0)				
Corre	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)				

Quiz. 10 questions

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 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) and do not keep the 1/keep_prob factor in the calculations used in training
Corre	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 point
8.	
Increas	sing 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
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
	Causing the neural network to end up with a lower training set error
Corre	ect

Practical aspects of deep learning Quiz 10 questions

9.	10115				
Which of	Which of these techniques are useful for reducing variance (reducing overfitting)? (Check all that apply.)				
V	anishing gradient				
Un-sele	cted is correct				
050.0					
L	2 regularization				
Correct					
	ropout				
Correct					
	radient Checking				
Un-sele	cted is correct				
X	avier initialization				
Un-sele	cted is correct				
	ata augmentation				
Correct					
Correct					
E	xploding gradient				
Un-sele	cted is correct				
	1 / 1 point				
10.					
Why do w	ve normalize the inputs x ?				
	ormalization is another word for regularizationIt helps to reduce variance				

Practica	t makes it easier to visualize the data l aspects of deep learning l aspects the parameter initialization faster
	t makes the cost function faster to optimize
Correct	

 \bigcirc \square