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? 98% train . 1% dev . 1% test Correct 33% train . 33% dev . 33% test 60% train . 20% dev . 20% test 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)

Practical⁰/_{point} spects of deep learning

Un-selected is correct

Quiz, 10 que	estions
3. If your try?	Neural Network model seems to have high variance, what of the following would be promising things to
	Get more test data
Un-s	elected is correct
	Increase the number of units in each hidden layer
Un-se	elected is correct
	Add regularization
Corre	ect
	Make the Neural Network deeper
This	should not be selected
	Get more training data
This	should be selected
~	1 / 1 point
banana	e working on an automated check-out kiosk for a supermarket, and are building a classifier for apples, as and oranges. Suppose your classifier obtains a training set error of 0.5%, and a dev set error of 7%. of the following are promising things to try to improve your classifier? (Check all that apply.)
	Increase the regularization parameter lambda
Corre	ect
	Decrease the regularization parameter lambda

Practical aspects of deep learning

Quiz, 10 questions **Correct**

	Use a bigger neural network				
Un-s	Un-selected is correct				
~	1 / 1 point				
5. Wha t is	s weight decay?				
	Gradual corruption of the weights in the neural network if it is trained on noisy data.				
	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.				
Corre	ect				
~	1 / 1 point				
5.					
What h	nappens when you increase the regularization hyperparameter lambda?				
	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)				

Practical aspects of deep learning

Qui<u>z,</u> 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 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.	
	You apply dropout (randomly eliminating units) and do not 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	
lln-s	elected is correct	
Oli-Sciecteu is collect		
	Causing the neural network to end up with a lower training set error	
Correct		

Practical aspects of deep learning

It makes the parameter initialization faster

Quiz, 10 questions

is to questions			
Which of these techniques are useful for reducing variance (reducing overfitting)? (Check all that apply.)			
Xavier initialization			
Un-selected is correct			
Dropout			
Correct			
Data augmentation			
Correct			
Vanishing gradient			
Un-selected is correct			
Gradient Checking			
Un-selected is correct			
L2 regularization			
Correct			
Exploding gradient			
Un-selected is correct			
1/1			
point			
10.			
Why do we normalize the inputs x ?			

	Normalization is another word for regularizationIt helps to reduce variance cal aspects of deep learning editions the cost function faster to optimize
Corre	ect
	It makes it easier to visualize the data
₽ P	