Quiz, 10 questions

✓ 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?



98% train . 1% dev . 1% test

Correct

- 60% train . 20% dev . 20% test
- 33% train . 33% dev . 33% test



1/1 points

2.

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)

Have the same number of examples Practical aspects of deep learning

1/1

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	points	
-	Neural Network model seems to have high variance, what of the ag would be promising things to try?	
	Get more training data	
Corre	ct	
	Make the Neural Network deeper	
Un-se	lected is correct	
	Add regularization	
Correct		
	Get more test data	
Un-se	lected is correct	
	Increase the number of units in each hidden layer	
Un-selected is correct		
	1/1	

4

points

You are working on an automated check-out kiosk for a supermarket, and are 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.)

_		
	the second secon	
	Increase the regularization narameter	lamhd:
_	Increase the regularization parameter	iaiiibuc

Practical aspects of deep learning

10/10 points (100%)

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	Decrease the regularization parameter lambda		
Un-se	elected is correct		
	Get more training data		
Corre	ect		
	Use a bigger neural network		
Un-se	elected is correct		
~	1 / 1 points		
5. Vhat is	s weight decay?		
	The process of gradually decreasing the learning rate during training.		
	A regularization technique (such as L2 regularization) that results in gradient descent shrinking the weights on every iteration.		
Corre			
	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 values of the weights.		



What happens when you increase the regularization hyperparameter Practical aspects of deep learning

10/10 points (100%)

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4	

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)
~	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
	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



1/1 points

8.

Increasing 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

Practical aspects of deep learning

10/10 points (100%)

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Corre	Reducing the regularization effect
	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
Corre	ect
	1 / 1 points of these techniques are useful for reducing variance (reducing ting)? (Check all that apply.)
	Gradient Checking
Un-se	elected is correct
	Dropout
Corre	ect
Un-se	Vanishing gradient

Data augmentation

Correct

10/10 points (100%)

Practical as _l	pects	of deep learning	1
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	Corre	ect	
		Xavier initialization	
	Un-s	elected is correct	
		Exploding gradient	
	Un-s	elected is correct	
	~	1/1 points	
	10. Why do	o we normalize the inputs x ?	
		It makes the parameter initialization faster	
		Normalization is another word for regularizationIt helps to reduce variance	
		It makes the cost function faster to optimize	
	Corre	ect	

It makes it easier to visualize the data







Practical aspects of deep learning

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10/10 points (100%)