10/10 points (100.00%)

Quiz, 10 questions



Next Item



1/1 points

1.

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

2.

Practical aspects of deep learning

10/10 points (100.00%)

Quiz, 10 questions

The dev and test set should:

0	Come from the same distribution	
Correct		
\bigcirc	Come from different distributions	
	Come from different distributions	
\bigcirc	Be identical to each other (same (x,y) pairs)	
\bigcirc	Have the same number of examples	

ooints

0.00%)

Practical as	pects	of deep learning	10/10 points (100
Quiz, 10 questions	-	Neural Network model seems to have high va f the following would be promising things to t	
		Add regularization	
	Corre	ct	
		Get more training data	
	Corre	ct	
		Make the Neural Network deeper	
	Un-se	elected is correct	
		Get more test data	
	Un-se	elected is correct	
		Increase the number of units in each hidden	layer
	Un-se	elected is correct	

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10/10 points (100.00%)

Quiz, 10 questions

4.

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.)

lassifier? (Check all that apply.)		
	Increase the regularization parameter lambda	
Correct		
Lin es	Decrease the regularization parameter lambda	
Un-selected is correct		
	Get more training data	
Correct		
	Use a bigger neural network	
Un-selected is correct		

5.

Practical aspects of deep learning

10/10 points (100.00%)

Quiz, 10 questions

What is weight decay?

That is well-fire accay.		
O	A regularization technique (such as L2 regularization) that results in gradient descent shrinking the weights on every iteration.	
Correct		
0	A technique to avoid vanishing gradient by imposing a ceiling on the values of the weights.	
0	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.

10/10 points (100.00%)

Quiz, 10	questions
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6.

What happens 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)

10/10 points (100.00%)

Quiz, 10 questions 7.

7.		
Vith the 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	
Correct		
0	You do not apply dropout (do not randomly eliminate units), but keep the 1/keep_prob factor in the calculations used in training.	
\bigcirc	You apply dropout (randomly eliminating units) and do not keep the 1/keep_prob factor in the	

calculations used in training

Practical aspects of deep learning Quiz, 10 questions 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 Un-selected is correct Reducing the regularization effect Correct Causing the neural network to end up with a higher training set error Un-selected is correct Causing the neural network to end up with a lower training set error

Correct

Practical aspects of deep learning 10/10 points (100.00%) Quiz, 10 questions 9. Which of these techniques are useful for reducing variance (reducing overfitting)? (Check all that apply.) Xavier initialization **Un-selected is correct** Vanishing gradient **Un-selected is correct** Dropout Correct L2 regularization Correct **Gradient Checking Un-selected is correct** Exploding gradient **Un-selected** is correct

Data augmentation

Correct

10/10 points (100.00%)

Quiz, 10 questions

Why do we normalize the inputs x ?		
0	Normalization is another word for regularization It helps to reduce variance	
\bigcirc	It makes the parameter initialization faster	
0	It makes it easier to visualize the data	
0	It makes the cost function faster to optimize	
Correct		



