Practical aspects of deep learning

10/10 分 (100%)

测验, 10 个问题

✔ 恭喜! 🦨	您通过了!	下一项
1。 If you h set?	1/1分 nave 10,000,000 examples, how would you split the tra	in/dev/test
	33% train . 33% dev . 33% test 60% train . 20% dev . 20% test 98% train . 1% dev . 1% test	
2° The de	1/1分 v and test set should:	
正确	Come from the same distribution	
	Come from different distributions	

Be identical to each other (same (x,y) pairs)

Have the same number of examples

Practical aspects of deep learning

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测验, 10 个问题

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	Neural Network model seems to have high variance, what of the ng would be promising things to try?
	Get more test data
未选打	泽的是正确的
	Make the Neural Network deeper
未选打	泽的是正确的
	Increase the number of units in each hidden layer
未选技	译的是正确的
	Add regularization
正确	
	Get more training data
正确	



1/1分

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.)

Increase the regularization parameter lambda

正确

正确

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	Decrease the regularization parameter lambda
未选	圣的是正确的
	Get more training data

Use a bigger neural network

未选择的是正确的



1/1分

5。

What is 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.

正确

- 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.

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6。

What happens when you increase the regularization hyperparameter lambda?

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测验, 10 个问题

\bigcirc	Weights are pushed toward becoming smaller (closer to 0)

正确

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分

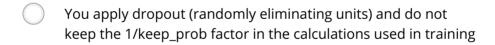
7.

With the inverted dropout technique, at test time:

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



正确



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) but keep the 1/keep_prob factor in the calculations used in training.



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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

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测验, 10 个问题		Reducing the regularization effect
	正确	
		Causing the neural network to end up with a higher training set error
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		Causing the neural network to end up with a lower training set error
	正确	
	~	1/1分
		of these techniques are useful for reducing variance (reducing ing)? (Check all that apply.)
		L2 regularization
	正确	
		Exploding gradient
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		Dropout
	正确	
		Data augmentation

正确

		Xavier initia	alizatior
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	Gradient Checking
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	Vanishing gradient
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\	1/1分
	we normalize the inputs x ?
	Normalization is another word for regularizationIt helps to reduce variance
	It makes it easier to visualize the data
0	It makes the cost function faster to optimize
正确	
	It makes the parameter initialization faster

