Practical aspects of deep learning

6/10 points (60.00%)

Quiz, 10 questions

X Try again once you are ready.

Required to pass: 80% or higher

You can retake this quiz up to 3 times every 8 hours.

Back to Week 1
Retake



1/1 points

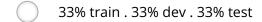
1.

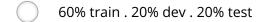
If you have 10,000,000 examples, how would you split the train/dev/test set?



98% train . 1% dev . 1% test

Correct







1/1 points

2.

The dev and test set should:



Come from the same distribution

Correct

Practical as	pects of लिखेलका सिंहित्यां मां हु ributions	6/10 points (60.00%
Quiz, 10 questions	Be identical to each other (same (x,y) pairs)	
	Have the same number of examples	
	1/1 points	
	3. If your Neural Network model seems to have high bias, what of the follow would be promising things to try? (Check all that apply.)	wing
	Make the Neural Network deeper	
	Correct	
	Increase the number of units in each hidden layer Correct	
	Get more test data	
	Un-selected is correct	
	Get more training data	
	Un-selected is correct	
	Add regularization	
	Un-selected is correct	



Practical aspects of deep learning

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Quiz, 10 questions

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.)

	of the following are promising things to try to improve your classified all that apply.)
	Increase the regularization parameter lambda
This	should be selected
	Decrease the regularization parameter lambda
Un-s	selected is correct
	Get more training data
Corr	ect
	Use a bigger neural network
Un-s	selected is correct
	1 / 1 points
hat i	s weight decay?
	A technique to avoid vanishing gradient by imposing a ceiling on the values of the weights.
	Gradual corruption of the weights in the neural network if it is trained on noisy data.
0	A regularization technique (such as L2 regularization) that results in gradient descent shrinking the weights on every iteration.

Correct

oints (60.00%)

Quiz, 10 questions		The process of gradually decreasing the learning rate during	
		training.	
	~	1 / 1 points	
	6. What h	nappens when you increase the regularization hyperparameter	
	0	Weights are pushed toward becoming smaller (closer to 0)	
	Corr	rect	
		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)	
	×	0 / 1 points	
	7. With th	he inverted dropout technique, at test time:	
		You do not apply dropout (do not randomly eliminate 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	

You apply dropout (randomly eliminating units) but keep the

1/keep_prob factor in the calculations used in training.

This should not be selected

Practical aspects of deep desprime only eliminating units) and do not keep the 1/keep_prob factor in the calculations used in training

6/10 points (60.00%)

~	1/1 points
	sing the parameter keep_prob from (say) 0.5 to 0.6 will likely cause the ng: (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-se	elected is correct
	Causing the neural network to end up with a lower training set error
Corre	ect
×	0 / 1 points
	of these techniques are useful for reducing variance (reducing cing)? (Check all that apply.)
	Exploding gradient

Un-selected is correct

points (60.00%)

Practical asp	pects of deep learning	6/10 բ
Quiz, 10 questions	Xavier initialization	
	This should not be selected	
	Data augmentation	
	Correct	
	Vanishing gradient	
	Un-selected is correct	
	Dropout	
	Correct	
	L2 regularization	
	Correct	
	Gradient Checking	
	Un-selected is correct	
	0/1 points	
	10. Why do we normalize the inputs x ?	
	It makes the parameter initialization faster	

It makes the cost function faster to optimize

Normalization is another word for regularization--It helps to Practical aspects of deepalearning

6/10 points (60.00%)

Quiz, 10 questions

This shou	ld not	be sel	lected
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	It makes it easier to visualize the data	