Quiz, 10 questions

✓ Congratulations! You passed!	Next Item
1 / 1 points	
1. If you have 10,000,000 examples, how would you split the traset?	in/dev/test
60% train . 20% dev . 20% test	
33% train . 33% dev . 33% test	
98% train . 1% dev . 1% test	
Correct	
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

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\	1 / 1 points
	Neural Network model seems to have high variance, what of the ng would be promising things to try?
	Get more training data
Corr	ect
	Add regularization
Corr	ect
	Make the Neural Network deeper
Un-s	elected is correct
	Increase the number of units in each hidden layer
Un-s	elected is correct
	Get more test data
Un-s	elected is correct
~	1/1 points

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
meredee the regularization parameter lambae

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10/10 points (100%)

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	Decrease the regularization parameter lambda					
Un-se	Un-selected is correct					
	Get more training data					
Corre	Correct					
	Use a bigger neural network					
Un-se	Un-selected is correct					
	1 / 1					
	1 / 1 points					
v. Vhat is	s weight decay?					
	Gradual corruption of the weights in the neural network if it is					
	trained on noisy data.					
\bigcirc	A regularization technique (such as L2 regularization) that					
	results in gradient descent shrinking the weights on every					
	iteration.					
Corre	ect					
	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.					



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

10/10 points (100%)

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To questions	0	Weights are pushed toward becoming smaller (closer to 0)
	Corr	ect
		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.	no inverted drapout technique, at test times
	with tr	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.
	0	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
	Corr	ect
		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), but keep the 1/keep_prob factor in the calculations used in training.
	~	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 e	effect

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10/10 points (100%)

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	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
	1 / 1 points
	9. Which of these techniques are useful for reducing variance (reducing overfitting)? (Check all that apply.)
	Dropout
	Correct
	Data augmentation
	Correct
	L2 regularization
	Correct
	Xavier initialization

Un-selected is correct

Practical aspects of deep learning

/10 points (100%)

10/			
uiz, 10 questions		Gradient Checking	
	Un-se	elected is correct	
		Vanishing gradient	
Un-selected is correct			
		Exploding gradient	
	Un-se	elected is correct	
	~	1 / 1 points	
	0. Vhy 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 it easier to visualize the data	
	0	It makes the cost function faster to optimize	
	Corre	ect	





Practical aspects of deep learning

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10/10 points (100%)