10/10 points (100.00%)

Quiz, 10 questions

<b>~</b>	Congratulations! You passed!	Next Item	
<b>~</b>	1 / 1 points		
1. If you h	nave 10,000,000 examples, how would you split the train/dev/test set?		
	60% train . 20% dev . 20% test		
0	98% train . 1% dev . 1% test		
Corre	Correct		
	33% train . 33% dev . 33% test		
<b>~</b>	1 / 1 points		
2. The de	v and test set should:		
0	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		

10/10 points (100.00%)

Quiz

z, <b>16.</b> questions  If your Neural Network model seems to have high variance, what of the following would be promising things to try?			
	Make the Neural Network deeper		
Un-se	Un-selected is correct		
	Add regularization		
Corre	ect		
	Increase the number of units in each hidden layer		
Un-se	elected is correct		
	Get more test data		
Un-se	elected is correct		
	Get more training data		
Corre	ect		
<b>~</b>	1 / 1 points		
apples,	e working on an automated check-out kiosk for a supermarket, and are building a classifier for bananas and oranges. Suppose your classifier obtains a training set error of 0.5%, and a dev set f 7%. Which of the following are promising things to try to improve your classifier? (Check all that		
Corre	Increase the regularization parameter lambda		
	Decrease the regularization parameter lambda		

**Un-selected is correct** 

10/10 points (100.00%)

Quiz, 10 questions **Correct** 

Use a bigger neural network			
Un-selected is correct			
<b>~</b>	1 / 1 points		
5. What is	s weight decay?		
	A technique to avoid vanishing gradient by imposing a ceiling on the values of the weights.		
0	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.		
	Gradual corruption of the weights in the neural network if it is trained on noisy data.		
<b>~</b>	1 / 1 points		
6. What happens when you increase the regularization hyperparameter lambda?			
0	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, 17-questions

With the inverted dropout technique, at test time:			
	You apply dropout (randomly eliminating units) and do not 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		
C-1111			
Corre	ect		
	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.		
<b>~</b>	1 / 1 points		
	ponts		
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-s	elected is correct		
	Causing the neural network to end up with a lower training set error		
Correct			



10/10 points (100.00%)

<b>9.</b> z, 10 quest Which	ions of these techniques are useful for reducing variance (reducing overfitting)? (Check all that apply.)
	Data augmentation
Corre	ect
	Gradient Checking
Un-se	elected is correct
	Vanishing gradient
Un-se	elected is correct
	Exploding gradient
Un-se	elected is correct
	Dropout
Corre	ect
	L2 regularization
Corre	ect
	Xavier initialization
Un-se	elected is correct
<b>~</b>	1 / 1 points
10.	
Why do	o we normalize the inputs $x$ ?
	It makes it easier to visualize the data

Normalization is another word for regularization--lt helps to reduce variance

### Practical aspects of deep learning timize

10/10 points (100.00%)

Quiz, 10 questions

Correct

It makes the parameter initialization faster





