## Practical aspects of deep learning

Quiz, 10 questions

1 point					
1.					
If you have 10,000,000 examples, how would you split the train/dev/test set?					
33% train . 33% dev . 33% test					
98% train . 1% dev . 1% test					
60% train . 20% dev . 20% test					
1 point					
2.					
The dev and test set should:					
Come from the same distribution					
Come from different distributions					
Be identical to each other (same (x,y) pairs)					
Have the same number of examples					
1 point					
point					

If your Neural Network model seems to have high bias, what of the following would be promising things to try? (Check all that apply.)

Practical aspects of despulsaring deeper					
Quiz, 10 questions	Add regularization				
	Increase the number of units in each hidden layer				
	Get more test data				
	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  Decrease the regularization parameter lambda  Get more training data				
	Use a bigger neural network				
	1 point  5. What is weight decay?				
	A regularization technique (such as L2 regularization) that results in gradient descent shrinking the weights on every iteration.				
	Gradual corruption of the weights in the neural network if it is trained on noisy data.				
	A technique to avoid vanishing gradient by imposing a ceiling on the values of the weights.				
	The process of gradually decreasing the learning rate during training.				

Get more training data

## Practical aspects of deep learning

Quiz, 10 questions **6.** 

What happens when you increase the regularization hyperparameter lambda?					
	Weights are pushed toward becoming smaller (closer to 0)				
	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 point					
7. With th	e 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 apply dropout (randomly eliminating units) but keep the 1/keep_prob factor in the calculations used in training.				
	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) and do not keep the 1/keep_prob factor in the calculations used in training				
1 point					
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				
	Reducing the regularization effect				
	Causing the neural network to end up with a higher training set error				

Causing the neural network to end up with a lower training set error

Practical aspects of deep learning					
Quiz, 10 questions	point				
	9. Which of these techniques are useful for reducing variance (reducing overfitting)? (Check all that apply.)				
		Pata augmentation			
	E	xploding gradient			
	G	Gradient Checking			
	L	2 regularization			
	V	anishing gradient			
		Propout			
	X	avier initialization			
	1 point				
	10.				
	Why do w	ve normalize the inputs $x$ ?			
	O It	makes it easier to visualize the data			
	O It	makes the parameter initialization faster			
	O It	makes the cost function faster to optimize			
		lormalization is another word for regularizationlt helps to reduce variance			
		Upgrade to submit			