Quiz, 10 questions

Congratulations! You passed! Next Item 1/1 points 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 Correct 60% train . 20% dev . 20% test 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

10/10 points (100%)

Quiz, 10 questions

points

3.

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

Get more training data

Un-selected is correct

Make the Neural Network deeper

Correct

Un-selected is correct

Add regularization

Increase the number of units in each hidden layer

Correct

Get more test data

Un-selected 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

Correct

Practical aspects of deep learning

Quiz, 10 questions

10/10 points (100%)

	Get more training data			
Correct				
Un-s	Use a bigger neural network elected is correct			
~	1 / 1 points			
5. What is	s weight decay?			
	A regularization technique (such as L2 regularization) that results in gradient descent shrinking the weights on every iteration.			
Corre	ect			
	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.			
✓ 6.	1 / 1 points			
	nappens when you increase the regularization hyperparameter lambda?			
	Weights are pushed toward becoming smaller (closer to 0)			
Corre	ect			

		Weights are pushed toward becoming bigger (further from 0)	
Practical a	spects of lide apple a faiting ughly result in doubling the weights		10/10 points (100%)
Quiz, 10 questions		Gradient descent taking bigger steps with each iteration (proportional to lambda)	
	~	1 / 1 points	
	7. With th	ne 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	
	Corr	ect	
	~	1 / 1 points	
		sing the parameter keep_prob from (say) 0.5 to 0.6 will likely cause the following the two that apply)	:
		Increasing the regularization effect	
	Un-s	elected is correct	
		Reducing the regularization effect	
	Corr	ect	

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

Un-selected is correct

Practical aspects of deep learning

10/10 points (100%)

Quiz, 10 questions Causing the neural network to end up with a lower training set error Correct 1/1 points Which of these techniques are useful for reducing variance (reducing overfitting)? (Check all that apply.) Data augmentation Correct Exploding gradient **Un-selected is correct Gradient Checking Un-selected is correct** L2 regularization Correct Vanishing gradient **Un-selected is correct** Dropout Correct

Xavier initialization

Un-selected is correct

Practical aspects of deep learning

10/10 points (100%)

Quiz, 10 questions



