✓ Congratulations! You passed!

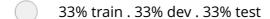
Next Item

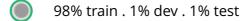
	4	•
1	7	

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

1/1 point

	60% train	20%	dev	20%	test
.)	60% train	. 20%	uev.	20%	เยรเ





Correct



7 The dev and test set should:

1/1 point



Come from the same distribution

Correct

Come	from	different	distributio	ns
COILIC		anner ente	aistribatio	

- Be identical to each other (same (x,y) pairs)
- Have the same number of examples



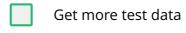
1/1 point

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.)

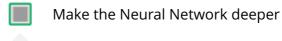


Increase the number of units in each hidden layer

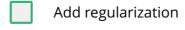




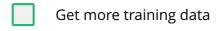
Un-selected is correct



Correct



Un-selected is correct



Un-selected is correct



1/1 point 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

			Decrease the regularization parameter lambda
Un-selected is correct			
			Get more training data
		Corr	ect
			Use a bigger neural network
		Un-s	selected is correct
~	5.	What i	s weight decay?
1 / 1 point			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.
			A regularization technique (such as L2 regularization) that results in gradient descent shrinking the weights on every iteration.
		Corr	ect
			A technique to avoid vanishing gradient by imposing a ceiling on the values of the weights.
~	6.		nappens when you increase the regularization parameter lambda?
1/1			Weights are pushed toward becoming smaller

(closer to 0)

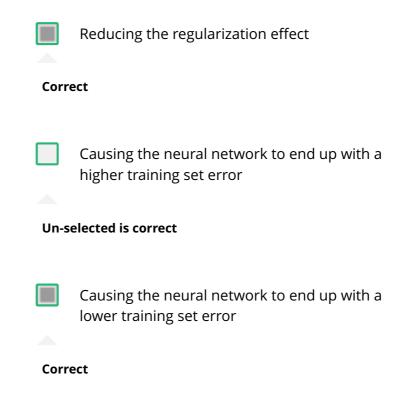
point

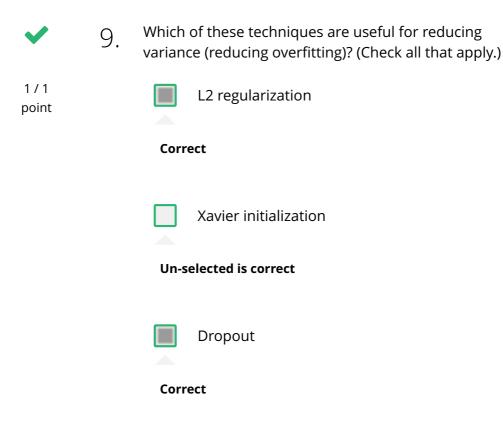
			Weights are pushed toward becoming bigger (further from 0)
			Doubling lambda should roughly result in doubling the weights
			Gradient descent taking bigger steps with each iteration (proportional to lambda)
~	7.	With th	ne inverted dropout technique, at test time:
1 / 1 point			You do not apply dropout (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
		Corre	ect
			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
1/1	8.		sing the parameter keep_prob from (say) 0.5 to likely cause the following: (Check the two that

Correct

Increasing the regularization effect

point





Un-selected is correct

Exploding gradient

	Gradient Checking
	Un-selected is correct
	Data augmentation
	Correct
	Vanishing gradient
	Un-selected is correct
~	10. Why do we normalize the inputs x ?
1/1 point	It makes the parameter initialization faster
	Normalization is another word for regularizationIt helps to reduce variance

It makes it easier to visualize the data

It makes the cost function faster to optimize

Correct





