Go to next item

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

1/1 point

98% train. 1% dev. 1% test.

60% train. 20% dev. 20% test.

33% train. 33% dev. 33% test.

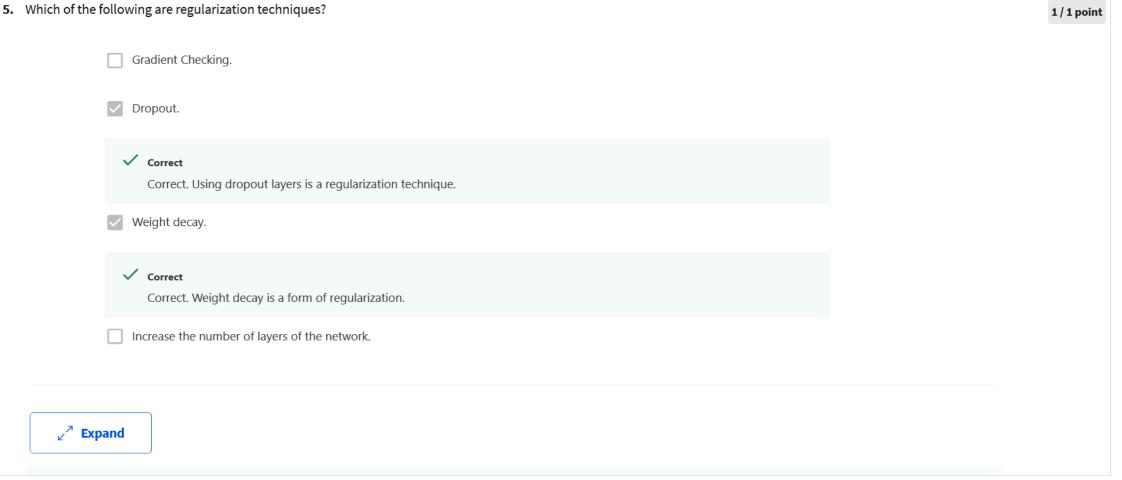
Expand

✓ Correct Yes. This might be considered a small data set, not in the range of big data. Thus a more classical (old) best practice should be used.

2. The dev and test set should:	1/1 point
Have the same number of examples	
Come from different distributions	
Come from the same distribution	
Be identical to each other (same (x,y) pairs)	
$\left[egin{array}{ccc} \ \ _{egin{array}{ccc} \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \$	

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.)	1 / 1 point
Make the Neural Network deeper	
✓ Correct	
Add regularization	
Increase the number of units in each hidden layer	
✓ Correct	
Get more training data	
Expand	
Correct Great, you got all the right answers.	

	ng 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 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.)	1/1 point
	Increase the regularization parameter lambda	
	✓ Correct	
	Decrease the regularization parameter lambda	
	Get more training data	
	✓ Correct	
	Use a bigger neural network	
∠ <sup>7</sup> Expa	and Control of the Co	
Correct Great v	you got all the right answers	



	Correct Great, you got all the right answers.	
6.	To reduce high variance, the regularization hyperparameter lambda must be increased. True/False?	1/1 point
	○ False	
	True	
	∠ <sup>¬</sup> Expand	
	<ul> <li>Correct</li> <li>Correct. By increasing the regularization parameter the magnitude of the weight parameters is reduced. This helps reduce the variance.</li> </ul>	

<ul><li>✓ Correct</li><li>Great, you got all the right answers.</li></ul>	
 Decreasing the parameter keep_prob from (say) 0.6 to 0.4 will likely cause the following:	
Causing the neural network to have a higher variance.	
Increasing the regularization effect.	

0 / 1 point



Reducing the regularization effect.

Incorrect
Incorrect. This will make the dropout have a higher probability of eliminating a node in the neural network, increasing the regularization effect.

9. Which of	the following actions increase the regularization of a model? (Check all that apply)	0 / 1 point	
	Normalizing the data.		
	This should not be selected Incorrect. Data normalization doesn't affect the variance of the model.		
	Increase the value of the hyperparameter lambda.		
	<ul> <li>Correct</li> <li>Correct. When increasing the hyperparameter lambda we increase the effect of the L_2 penalization.</li> </ul>		
	Increase the value of keep_prob in dropout.		
	Make use of data augmentation.		
	Correct Correct. Data augmentation has a way to generate "new" data at a relatively low cost. Thus making use of data augmentation can reduce the variance.		
	Decrease the value of the hyperparameter lambda.		



Incorrect
You chose the extra incorrect answers.

<b>10.</b> Why do we normalize the inputs $x$ ?	
It makes it easier to visualize the data	
Normalization is another word for regularizationIt helps to reduce variance	
It makes the cost function faster to optimize	
It makes the parameter initialization faster	
∠ <sup>¬</sup> Expand	
<b>⊘</b> Correct	