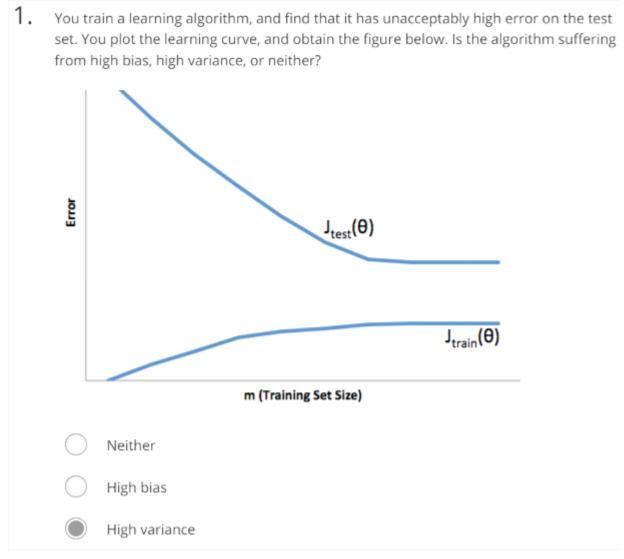
W6-1 Advice for Applying Machine Learning

Saturday, September 3, 2016 8:53 PM

Right: 1, 2, 3, 5



Suppose you have implemented regularized logistic regression to classify what object is in an image (i.e., to do object recognition). However, when you test your hypothesis on a new set of images, you find that it makes unacceptably large errors with its predictions on the new images. However, your hypothesis performs well (has low error) on the training set. Which of the following are promising steps to take? Check all that apply.
Try adding polynomial features.
Try using a smaller set of features.
Use fewer training examples.
Get more training examples.

3.	Suppose you have implemented regularized logistic regression			
	to pred			
	shoppi			
	set of customers, you find that it makes unacceptably large			
	errors in its predictions. Furthermore, the hypothesis			
	performs poorly on the training set. Which of the			
	following might be promising steps to take? Check all that			
	apply.	apply.		
		Try to obtain and use additional features.		
		Try using a smaller set of features.		
		Try increasing the regularization parameter λ .		
		Try adding polynomial features.		
4.	Which	of the following statements are true? Check all that apply.		
		Suppose you are training a regularized linear regression model. The recommended way to choose what value of regularization parameter λ to use is to choose the value of λ which gives the lowest training set error.		
		Suppose you are training a regularized linear regression model. The recommended way to choose what value of regularization parameter λ to use is to choose the value of λ which gives the lowest test set error.		
		Suppose you are training a regularized linear regression model. The		

better than its performance on the test set.

recommended way to choose what value of regularization parameter λ to use is to choose the value of λ which gives the lowest **cross validation** error.

The performance of a learning algorithm on the training set will typically be

