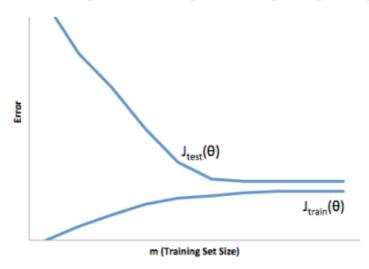
Advice for Applying Machine Learning

TOTAL POINTS 5

1. You train a learning algorithm, and find that it has unacceptably high error on the test set. You plot the learning curve, and obtain the figure below. Is the algorithm suffering from high bias, high variance, or neither?

1 point



- Neither
- High variance
- High bias
- 2. Suppose you have implemented regularized logistic regression

1 point

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 using a smaller set of features.
- Try evaluating the hypothesis on a cross validation set rather than the test set.
- \checkmark Try increasing the regularization parameter λ .
- 3. Suppose you have implemented regularized logistic regression

1 point

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. Try decreasing the regularization parameter λ. Try evaluating the hypothesis on a cross validation set rather than the test set. Use fewer training examples. Try adding polynomial features. 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. The performance of a learning algorithm on the training set will typically be better than its performance on the test set. 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. The performance of a learning algorithm on the training set will typically be better than its performance on the test set. 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 set error. A model with more parameters is more prone to overfitting and typically has higher variance. If the training and test errors are about the same, adding more features will not help improve the results. if a learning algorithm is suffering from high variance, adding more training examples may not improve the test error.		shopping site. However, when you test your hypothesis on a new	
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