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**To pass** 80% or higher

Go to next item

1. Which of the following can address overfitting?

1/1 point

- Collect more training data
- **⊘** Correct

If the model trains on more data, it may generalize better to new examples.

- Apply regularization
- **⊘** Correct

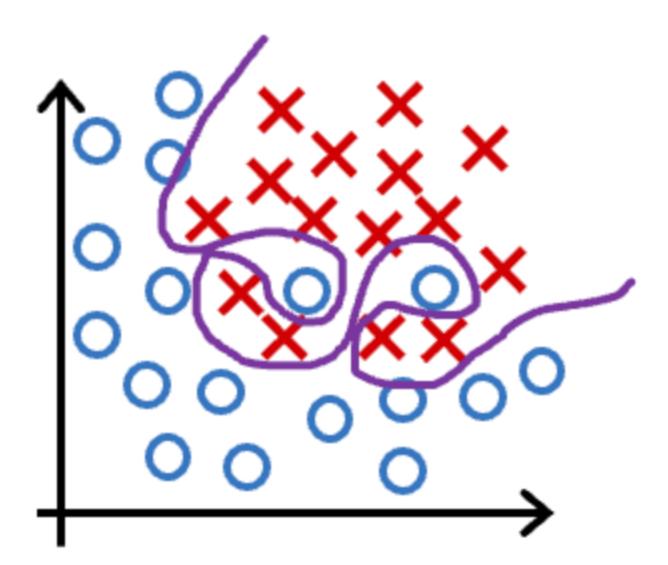
Regularization is used to reduce overfitting.

- Remove a random set of training examples
- Select a subset of the more relevant features.
- **⊘** Correct

If the model trains on the more relevant features, and not on the less useful features, it may generalize better to new examples.

2. You fit logistic regression with polynomial features to a dataset, and your model looks like this.

1/1 point



What would you conclude? (Pick one)

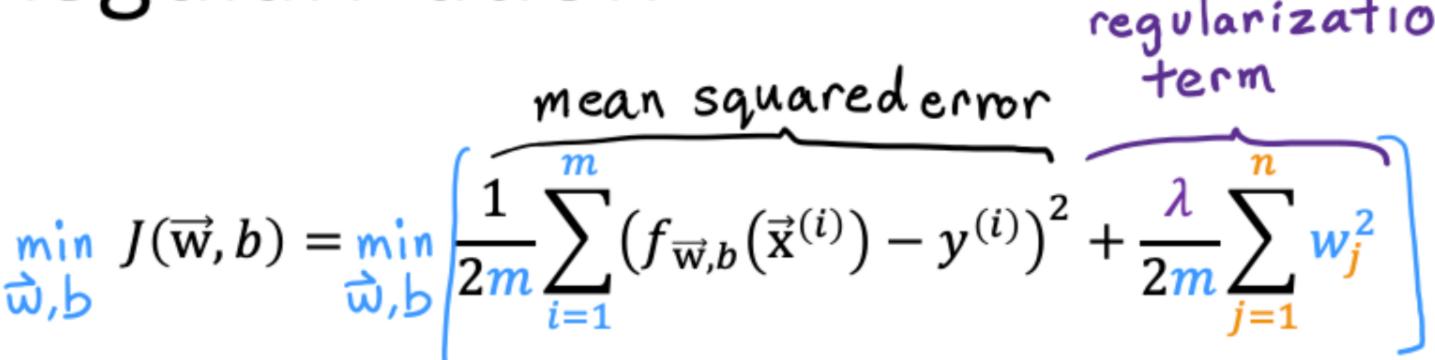
- The model has high bias (underfit). Thus, adding data is likely to help
- The model has high bias (underfit). Thus, adding data is, by itself, unlikely to help much.
- The model has high variance (overfit). Thus, adding data is, by itself, unlikely to help much.
- The model has high variance (overfit). Thus, adding data is likely to help

**⊘** Correct

The model has high variance (it overfits the training data). Adding data (more training examples) can help.

Regularization

1/1 point



Suppose you have a regularized linear regression model. If you increase the regularization parameter  $\lambda$ , what do you expect to happen to the parameters  $w_1, w_2, ..., w_n$ ?

- lacksquare This will reduce the size of the parameters  $w_1, w_2, ..., w_n$
- igcap This will increase the size of the parameters  $w_1,w_2,...,w_n$
- **⊘** Correct

Regularization reduces overfitting by reducing the size of the parameters  $w_1, w_2, ... w_n$ .