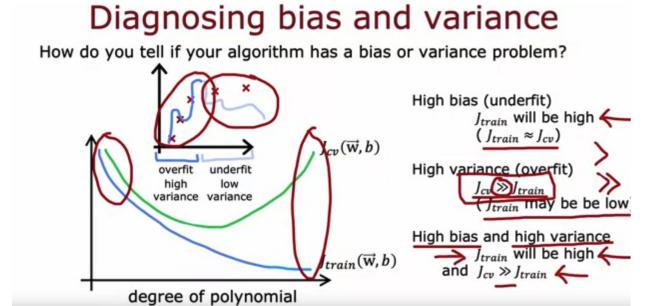
Congratulations! You passed!

Grade received 100% Latest Submission Grade 100% To pass 80% or higher

Go to next item

1,1 point



If the model's cross validation error J_{cv} is much higher than the training error J_{train} , this is an indication that the model has...

- O Low variance
- O Low bias
- high variance
- O high bias
- Correct

When $J_{cv} >> J_{train}$ (whether J_{train} is also high or not, this is a sign that the model is overfitting to the training data and performing much worse on new examples.

1/1point

Bias/variance examples

Baseline performance : 10.6% 10.2% 10.6%

Which of these is the best way to determine whether your model has high bias (has underfit the training data)? See if the training error is high (above 15% or so)	
See if the cross validation error is high compared to the baseline level of performance	
Compare the training error to the cross validation error.	
Compare the training error to the baseline level of performance	
Correct Correct. If comparing your model's training error to a baseline level of performance (such as human level performance, or performance of established models), if your model's training error is much higher, then this is a sign that the model has high bias (has underfit).	other well-
	1/1 poi
Debugging a learning algorithm	
You've implemented regularized linear regression on housing prices $J(\overrightarrow{w},b) = \frac{1}{2m} \sum_{i=1}^{m} \left(f_{\overrightarrow{w},b}(\overrightarrow{x}^{(i)}) - y^{(i)} \right)^2 + \frac{\lambda}{2m} \sum_{j=1}^{n} w_j^2$ But it makes unacceptably large errors in predictions. What do you try next?	
→ Get more training examples → Try smaller sets of features $x, x^2, x, x^2, x, x^2, x^2, x^2, x^2, x$	ce
You find that your algorithm has high bias. Which of these seem like good options for improving the algorithm's performance? Hint: two of these Collect additional features or add polynomial features	e are correct.
You find that your algorithm has high bias. Which of these seem like good options for improving the algorithm's performance? Hint: two of these	e are correct.
You find that your algorithm has high bias. Which of these seem like good options for improving the algorithm's performance? Hint: two of these Collect additional features or add polynomial features Correct	e are correct.
You find that your algorithm has high bias. Which of these seem like good options for improving the algorithm's performance? Hint: two of these Collect additional features or add polynomial features Correct Correct. More features could potentially help the model better fit the training examples.	e are correct.
 You find that your algorithm has high bias. Which of these seem like good options for improving the algorithm's performance? Hint: two of these ✓ Collect additional features or add polynomial features ✓ Correct Correct Correct. More features could potentially help the model better fit the training examples. ✓ Decrease the regularization parameter λ (lambda) ✓ Correct Correct Correct. Decreasing regularization can help the model better fit the training data. 	e are correct.
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⊘ Correct

	Yes, the model appears to have high variance (overfit), and collecting more training examples would help reduce high variance.
	Reduce the training set size
~	Increase the regularization parameter λ
(Correct Yes, the model appears to have high variance (overfit), and increasing regularization would help reduce high variance.