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Module 4 Graded Quiz: Bias Variance Trade off and Regularization Techniques: Ridge, LASSO, and Elastic Net

Graded Assignment • 30 min

 **Due** Oct 1, 11:59 PM +07

Your grade: 100%

Your latest: 100% • Your highest: 100%

To pass you need at least 70%. We keep your highest score.

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1. Which of the following statements about model complexity is TRUE?

1 / 1 point

- ☐ Higher model complexity leads to a lower chance of overfitting.
- ☒ Higher model complexity leads to a higher chance of overfitting.
- ☐ Reducing the number of features while adding feature interactions leads to a lower chance of overfitting.
- ☐ Reducing the number of features while adding feature interactions leads to a higher chance of overfitting.

 **Correct**

Correct! You can find more information in the Bias Trade Off lesson.

2. Which of the following statements about model errors is TRUE?

1 / 1 point

- ☐ Underfitting is characterized by lower errors in both training and test samples.
- ☒ Underfitting is characterized by higher errors in both training and test samples.
- ☐ Underfitting is characterized by higher errors in training samples and lower errors in test samples.
- ☐ Underfitting is characterized by lower errors in training samples and higher errors in test samples.

 **Correct**