

Course > Ch5 Resampling Methods > 5.1 Cross-validation > 5.1 Review Questions

🔖 Bookmark this page

5.1.R1

1/1 point (graded)

When we fit a model to data, which is typically larger?

☒ Test Error ✓

☐ Training Error

Explanation

Training error almost always underestimates test error, sometimes dramatically

Submit

📘 Answers are displayed within the problem

5.1.R2

1/1 point (graded)

What are reasons why test error could be LESS than training error?

☒ By chance, the test set has easier cases than the training set. ✓

☐ The model is highly complex, so training error systematically overestimates test error

☐ The model is not very complex, so training error systematically overestimates test error



Explanation

Training error usually UNDERestimates test error when the model is very complex (compared to the training set size), and is a pretty good estimate when the model is not very complex. However, it's always possible we just get too few hard-to-predict points in the test set, or too many in the training set.

Submit

i Answers are displayed within the problem

© All Rights Reserved