

Course > Ch5 Resampling Methods > 5.2 K-fold Cross-Validation > 5.2 Review Questions

🔖 Bookmark this page

5.2.R1

0/1 point (graded)

Suppose we want to use cross-validation to estimate the error of the following procedure:

Step 1: Find the k variables most correlated with y

Step 2: Fit a linear regression using those variables as predictors

We will estimate the error for each k from 1 to p , and then choose the best k .

True or false: a correct cross-validation procedure will possibly choose a different set of k variables for every fold.

☐ TRUE ✓

☒ FALSE ✗

Explanation

True: we need to replicate our entire procedure for each training/validation split. That means the decision about which k variables are the best must be made on the basis of the training set alone. In general, different training sets will disagree on which are the best k variables.

Submit

📘 Answers are displayed within the problem

© All Rights Reserved