



Keeping an Eye on Healthcare Costs:

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Quick Question

Quick Question

0/1 point (graded)

In the previous video, we constructed two CART models. The first CART model, without the loss matrix, predicted bucket 1 for 78.6% of the observations in the test set. Did the second CART model, with the loss matrix, predict bucket 1 for more or fewer of the observations, and why?


- ☐ According to the penalty matrix, some of the worst types of errors are to not predict bucket 1 when the actual cost bucket is bucket 1. Therefore, the model with the penalty matrix predicted bucket 1 more frequently.
- ☐ According to the penalty matrix, some of the worst types of errors are to predict bucket 1 when the actual cost bucket is higher. Therefore, the model with the penalty matrix predicted bucket 1 more frequently.
- ☒ According to the penalty matrix, some of the worst types of errors are to not predict bucket 1 when the actual cost bucket is bucket 1. Therefore, the model with the penalty matrix predicted bucket 1 less frequently. ✖
- ☐ According to the penalty matrix, some of the worst types of errors are to predict bucket 1 when the actual cost bucket is higher. Therefore, the model with the penalty matrix predicted bucket 1 less frequently. ✔

Explanation

If you look at the classification matrix for the second CART model, we predicted bucket 1 less frequently. This is because, according to the penalty matrix, some of the worst types of errors are to predict bucket 1 when the actual cost bucket is higher.

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You have used 1 of 1 attempt

 Answers are displayed within the problem