☑ Quiz M7.03

Note: For each question **make sure you select all of the correct options—** there may be more than one! Don't forget to use the sandbox notebook if you need.

Question 1 (1/1 point)

How to evaluate and tune the hyperparameters of a model?

☐ a) Fit the model on the train set, set the parameters using the test set, and evaluate the model on the same test set

☑ b) Fit the model on the train set, set the parameters using a validation set, and evaluate the model on the test set ✔

☑ c) use a nested cross-validation, with an inner cross-validation to tune the parameters of the model and an outer cross-validation to evaluate the model's performance ✔

✔

Select all answers that apply

EXPLANATION

solution: b) c)

a) is wrong because we would have overoptimistic results. Indeed, we used some data to fix some internal parameters of our model and reuse the same data to make the evaluation. The data used for the evaluation should never be used at any point to make a decision on tuning our model.

You have used 1 of 2 submissions

○ **Too easy, I got bored**

○ **Adapted to my skills**

○ **Difficult but I was able to follow**

○ **Too difficult**

Submit

To follow this lesson, I spent:

○ **less than 30 minutes**

○ **30 min to 1 hour**

○ **1 to 2 hours**

○ **2 to 4 hours**

○ **more than 4 hours**

○ **I don't know**

Submit

FORUM (EXTERNAL RESOURCE)

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