

- Welcome
- Introduction: Machine Learning concepts
- Module 1. The Predictive Modeling Pipeline
- Module 2.
 Selecting the best model

Module overview

Overfitting and Underfitting

Quiz M2

Validation and learning curves Quiz M2

Bias versus variance trade-off Quiz M2

Wrap-up quiz
Wrap-up quiz

Main Take-away

- Module 3.Hyperparameter tuning
- Module 4.

☑ Quiz M2.01

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)

A model that is underfitting:

- \Box a) is too complex and thus highly flexible
- b) is too constrained and thus limited by its expressivity
- c) often makes prediction errors, even on training samples
- $\hfill \Box$ d) focuses too much on noisy details of the training set

~

Select all answers that apply

EXPLANATION

solution: b) c)

b) is the definition of a model that underfits. As a result, this model will make prediction errors, even on the training set due to its lack of flexibility.

You have used 1 of 2 submissions

Question 2 (1/1 point)

A model that is overfitting:



- Module 5.Decision tree models
- Module 6.Ensemble of models
- Module 7.Evaluating model performance
- ▶ Conclusion
- Appendix

b) is too	constrained	and thus	limited b	y its ex	pressivity

- \Box c) often makes prediction errors, even on training samples
- ☑ d) focuses too much on noisy details of the training set



Select all answers that apply

EXPLANATION

solutions: a) and d)

a) is the definition of a model that overfits. As a consequence, it will not make any or little error on the training set, even on noisy samples. However, the prediction function does not reflect the true generative process and induces errors on the test set.

You have used 1 of 2 submissions

YOUR EXPERIENCE

According to you, this whole 'Overfitting and Underfitting' lesson was:

- O Too easy, I got bored
- Adapted to my skills
- O Difficult but I was able to follow
- Too difficult

Submit

To follow this lesson, I spent:

less than 30 minutes



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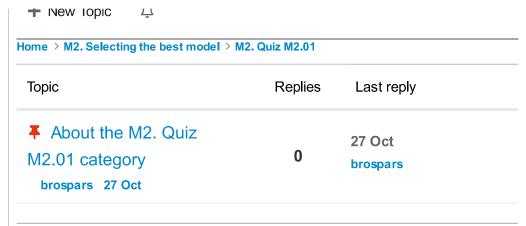
- O more than 4 hours
- O I don't know

Submit

FORUM (EXTERNAL RESOURCE)







There are no more M2. Quiz M2.01 topics. Ready to start a new conversation?

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