

- ▶ Welcome
- ▶ Introduction: Machine Learning concepts
- ▶ Module 1. The Predictive Modeling Pipeline
- ▶ Module 2. Selecting the best model
- ▶ Module 3. Hyperparameter tuning
- ▶ Module 4. Linear Models
- ▼ **Module 5. Decision tree models**

Module overview

Intuitions on tree-based models

Quiz M5 

Decision tree in classification

Quiz M5 

Decision tree in regression

✓ Quiz M5.03

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)

When fitting a decision tree regressor in scikit-learn, the predicted values on a leaf corresponds to:

- ☐ a) the median of the training samples at this node
- ☒ b) the mean of the training samples at this node
- ☐ c) the most frequent value of the training samples at this node

You have used 1 of 1 submissions

Question 2 (1/1 point)

Decision tree regressors can predict:

- ☐ a) any values, including values larger or smaller than those observed in `y_train`
- ☒ b) only values in the range from `np.min(y_train)` to `np.max(y_train)`

You have used 1 of 1 submissions

OT decision tree

Quiz M5



Wrap-up quiz

Wrap-up quiz



Main take-away

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

☐ a) a piecewise-linear function

☒ b) a piecewise-constant function ✓

☐ c) a piecewise-cubic function

EXPLANATION

solution: b)

When predicting with a decision tree regressor, we will predict the mean of the training samples at a leaf. This value is indeed a constant.

You have used 1 of 1 submissions

YOUR EXPERIENCE

According to you, this whole 'Decision tree in regression' lesson was:

- ☐ **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**


- ☐ **2 to 4 hours**
- ☐ **more than 4 hours**
- ☐ **I don't know**

Submit

FORUM (EXTERNAL RESOURCE)

 New topic 

[Home](#) > [M5. Decision tree models](#) > [M5. Quiz M5.03](#)

Topic	Replies	Last reply
 About the M5. Quiz M5.03 category brospars 27 Oct	0	27 Oct brospars

There are no more M5. Quiz M5.03 topics. Ready to [start a new conversation?](#)

About...

Help and Contact

Terms of use

Terms and conditions

