Quiz M7.04

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)

What is the default score in scikit-learn when using a classifier?

- a) balanced accuracy
- b) ROC-AUC
- c) accuracy ✔

EXPLANATION

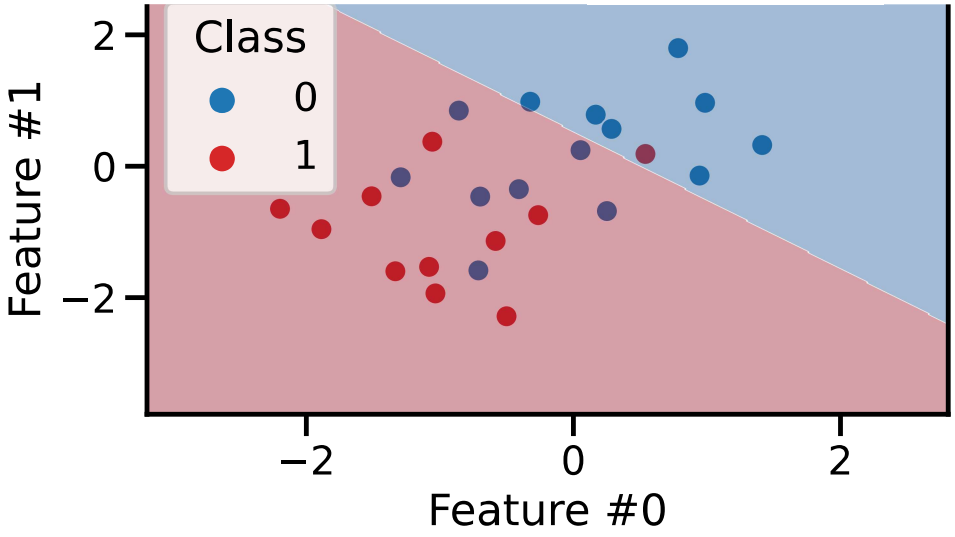
solution: c)

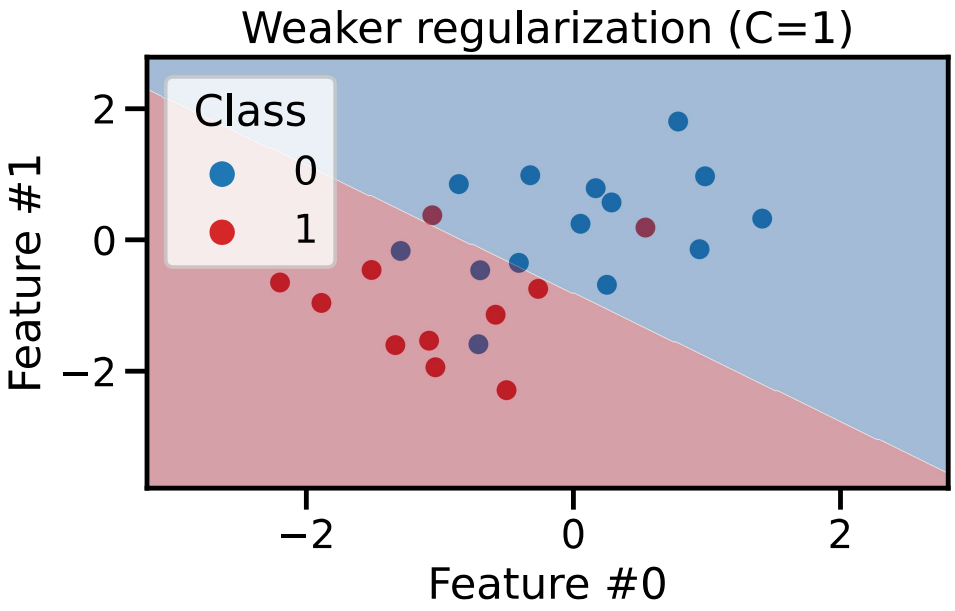
Each classifier in scikit-learn are using the accuracy score as a default metric: documentation

You have used 1 of 1 submissions

Question 2 (1/1 point)

Other than the decision threshold, metrics such as recall and precision also depend on the regularization parameters.





Assuming that class "1" (in red) is the positive class, use the previous figures to select which statements are true in this particular logistic regression model.

- [ ] a) stronger regularization leads to higher precision
- [x] b) stronger regularization leads to lower precision ✔
- [x] c) stronger regularization leads to higher recall ✔

✔

Select all answers that apply

EXPLANATION

solution: b) c)

When increasing the regularization strength (lower value for C) in this example the number of true positives remains almost the same, the number of false positives increases (lowers the precision) and the number of false negatives decreases (increases the recall).

Intuitively, the precision measures the ability of the model to not make mistakes among the samples actually classified as positive. The recall is the ability of the model to find all the samples that should have been classified as positive.

You have used 1 of 2 submissions

YOUR EXPERIENCE

According to you, this whole 'Classification metrics' 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**
- ○ **30 min to 1 hour**

- ○ **more than 4 hours**
- ○ **I don't know**

Submit

FORUM (EXTERNAL RESOURCE)

There are no more M7. Quiz M7.04 topics. Ready to start a new conversation?

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