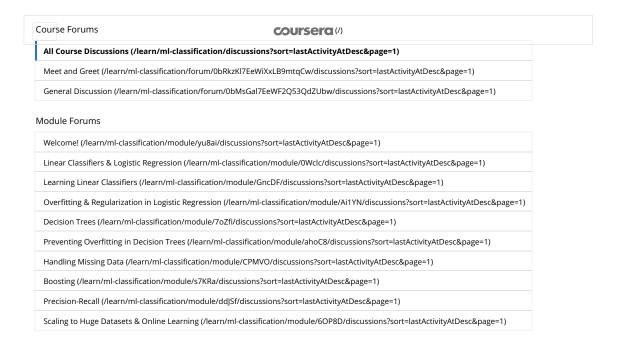Like this course? Become an expert by joining the Machine Learning Specialization (/specializations/machine-learning).

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T **Module 8 assignment 1 week 5 question**

tri Boosting (/learn/ml-classification/module/s7KRa/discussions) · a day ago (/learn/ml-
(/learn/ml- classification/discussions/VOWYueuXEeWkUAr_DMJ5Lw)
classification/profiles/89775d50411ef9a5c5e672c6f2afd274)
I compute false positive and false negative to answer this question follows

---

Quiz question: What is the number of **false positives** on the **validation_data**?

Calculate the number of **false negatives** made by the model.

```
]: predict5= model_5.predict(validation_data, output_type='class')
```

```
]: print 'false positive =', sum((validation_data['safe_loans']==1) &(predict5==-1 ))
   false positive = 1463
```

```
]: print 'false negative = ' , sum((validation_data['safe_loans']==-1) &(predict5==1))
   false negative =  1618
```

I check by print out confusion matrix

Calculate the number of **false positives** made by the model.

```
]: model_5.evaluate(validation_data, metric='confusion_matrix' )
```

```
]: {'confusion_matrix': Columns:
       target_label    int
       predicted_label int
       count    int

   Rows: 4

   Data:
   +--------------+-----------------+-------+
   | target_label | predicted_label | count |
   +--------------+-----------------+-------+
   |      -1      |        1        | 1618  |
   |      -1      |       -1        | 3054  |
   |       1      |       -1        | 1463  |
   |       1      |        1        | 3149  |
```

Help Center

```
|      1        |       1          |   5149 |
+--------------+------------------+------+
```
     [4 rows x 3 columns]}

Unfornatulately, my answer is incorrect. Since there is not much work in this assignment. What is wrong ? pls any boby help

Thank

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Philip Cho · Teaching Staff · 16 hours ago (/learn/ml-
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Actually you do have the right numbers for the false positives and false negatives. Which question did you get wrong?

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tri · 15 hours ago (/learn/ml-classification/discussions/VOWYueuXEeWkUAr_DMJ5Lw/replies/lLSBX-vfEeWkUAr_DMJ5Lw)
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classification/profiles/89775d50411ef9a5c5e672c6f2afd274)

Hi Phillip

I think false positive = total of predicting not true but it is true. So I assume safe_loans=1 is true in my above formula.
When I reverse I get correct answer.

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Kenneth Descoteaux · 14 hours ago (/learn/ml-
classification/discussions/VOWYueuXEeWkUAr_DMJ5Lw/replies/0mNvLevoEeWPKQpBKpg03Q)
(/learn/ml-
classification/profiles/96dbb6e379a3d5b00de70652a0518a2c)

A false positive is like when your doctor tells you that some test result was positive, that you are sick, but the test was actually wrong and you are fine.

What you describe is a false negative. The test result was negative, but you actually were sick and the test was wrong.

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tri · 13 hours ago (/learn/ml-classification/discussions/VOWYueuXEeWkUAr_DMJ5Lw/replies/TJptDuvyEeWWORKcDoY1lQ)
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classification/profiles/89775d50411ef9a5c5e672c6f2afd274)

Hi Kenneth

Great

I go to bed now with a happy face

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SD
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