Module 3 Quiz

Quiz, 14 questions

13/14 points (92%)

✓ Congratulations! You passed!

Next Item



1/1 points

1.

A supervised learning model has been built to predict whether someone is infected with a new strain of a virus. The probability of any one person having the virus is 1%. Using accuracy as a metric, what would be a good choice for a baseline accuracy score that the new model would want to outperform?



1/1 points

Given the following confusion matrix:

	Predicted Positive	Predicted Negative
Condition Positive	96	4
Condition Negative	8	19

2. Compute the accuracy to three decimal places.



1 / 1 points

Given the following confusion matrix:

	Predicted Positive	Predicted Negative
Condition Positive	96	4
Condition Negative	8	19

3. Compute the precision to three decimal places.



1/1 points Given the following confusion matrix: $Module \ 3 \ Quiz$

13/14 points (92%)

Quiz, 14 questions	Predicted Positive	Predicted Negative
Condition Positive	96	4
Condition Negative	8	19

4. Compute the recall to three decimal places.



1/1 points

Using the fitted model `m` create a precision-recall curve to answer the following question:

For the fitted model `m`, approximately what precision can we expect for a recall of 0.8?

5. (Use y_test and X_test to compute the precision-recall curve. If you wish to view a plot, you can use `plt.show()`)

```
print(m)
y_scores_lr = m.fit(X_train, y_train).decision_function(X_test)
precision, recall, thresholds = precision_recall_curve(y_test, y_scores_lr)
plt.plot(precision, recall, label='Precision-Recall Curve')
plt.show()
                                                                                                                                                                                                                                       Run
                                                                                                                                                                                                                                     Reset
```



1/1 points

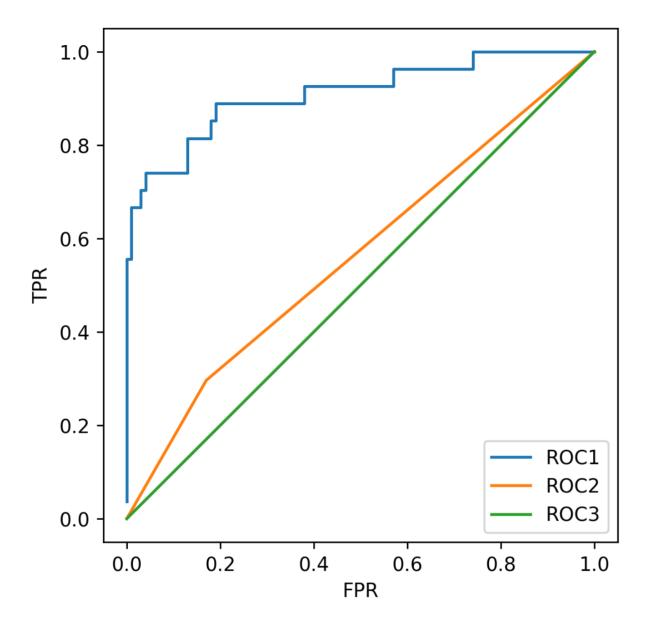




Given the following models and AUC scores, match each model to its corresponding ROC curve. $Module\ 3\ Quiz$

13/14 points (92%)

- Model 1୧୯୫t ୫୫୩୫୯୯୭୫ re: 0.91
- Model 2 test set AUC score: 0.50
- Model 3 test set AUC score: 0.56





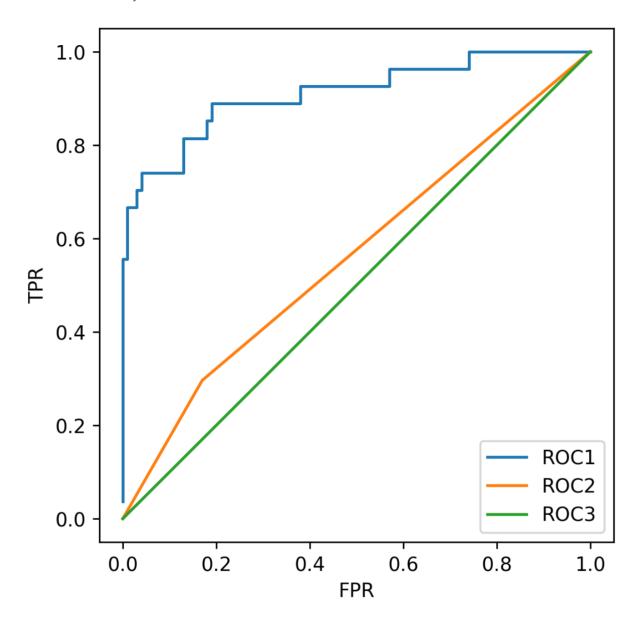
0/1 points

7.

Given the following models and accuracy scores, match each model to its corresponding ROC curve. Module~3~Quiz

13/14 points (92%)

- Model 2 test set accuracy: 0.79
- Model 3 test set accuracy: 0.72



1/1 points

Using the fitted model `m` what is the micro precision score?

8. (Use y_{test} and X_{test} to compute the precision score.)

```
print(m)
svm = m.fit(X_train, y_train)
svm_predicted_mc = svm.predict(X_test)
print(precision_score(y_test, svm_prediagegt_mc, average = 'micro'))|
```



1/1 points