Kahoot! Machine Learning: Summary

5-fold cross-validation

10-fold cross-validation

2 plays · 8 players

A public kahoot

Questions (26)

1 - Q	uiz	60
	fold cross-validation, how many times is each ervation part of the testing set?	60 sec
	1 time	✓
•	4 times	×
	5 times	×
	It's not possible to say	×
2 - Q	uiz	
	ch of the following model evaluation procedures takes most time to run?	20 sec
	Train/test split	×

5/9/22, 12:45 PM

3 - Quiz	
Which of these is used to "dummy encode" a categorical feature?	20 sec
OneHotEncoder	✓
ColumnTransformer	×
Pipeline	×
4 - Quiz	
Does the output of a OneHotEncoder have the same shape as the input?	20 sec
Yes, the output has the same shape as the input	×
No, the output has additional rows	×
No, the output has additional columns	✓
5 - Quiz	
Which of the following procedures outputs the most reliable estimate of a model's out-of-sample performance?	30 sec
Train/test split	×
K-fold cross-validation	×
Repeated K-fold cross-validation	✓

6 - Quiz	
Do you have to fit a model with data before passing it to the cross_val_score function?	30 sec
Yes	×
No	✓
7 - Quiz	
If you think of GridSearchCV as a "for" loop, what is happening within that loop?	30 sec
Train/test split	×
K-fold cross-validation	✓
8 - Quiz	
Which data structure is used to store the entire parameter grid for GridSearchCV?	30 sec
Dictionary	✓
List	×
9 - Quiz	60 sec
Do GridSearchCV and cross_val_score both use a fit method?	oo sec
Yes, both of them use a fit method	×
GridSearchCV uses a fit method, but cross_val_score does not	✓
cross_val_score uses a fit method, but GridSearchCV does not	×
No, both do not use a fit method	×

120 00
120 se
×
×
✓
×
×
✓
20
20 se
✓
×
quent class 🗙

Positive class Negative class 4 - Quiz Which of the following statements describes a False Positive? The true value is Negative and the predicted value is Positive The true value is Positive and the predicted value is Negative	d the predicted value is Positive I the predicted value is Negative	Negative class 4 - Quiz Which of the following statements describes a False Positive? The true value is Negative and the predicted value is Positive The true value is Positive and the predicted value is Negative 5 - Quiz
The true value is Positive and the predicted value is Negative The true value is Positive and the predicted value is Negative	ts describes a False Positive? If the predicted value is Positive If the predicted value is Negative	The true value is Negative and the predicted value is Positive The true value is Positive and the predicted value is Negative The true value is Positive and the predicted value is Negative
The true value is Negative and the predicted value is Positive The true value is Positive and the predicted value is Negative	ts describes a False Positive? If the predicted value is Positive If the predicted value is Negative	The true value is Negative and the predicted value is Positive The true value is Positive and the predicted value is Negative The true value is Positive and the predicted value is Negative G-Quiz
The true value is Negative and the predicted value is Positive The true value is Positive and the predicted value is Negative	ts describes a False Positive? If the predicted value is Positive If the predicted value is Negative	The true value is Negative and the predicted value is Positive The true value is Positive and the predicted value is Negative The true value is Positive and the predicted value is Negative - Quiz
The true value is Positive and the predicted value is Negative	I the predicted value is Negative	The true value is Positive and the predicted value is Negative 5 - Quiz
	30 se	i - Quiz
5 - Quiz		
an you use a confusion matrix when there are more than vo response classes?		
Yes	▼	Yes
		No
No	>	
	>	- Ouiz
No 5 - Quiz an you use the area under the curve (AUC) metric when	eurve (AUC) metric when	
No		
- Quiz	urve (AUC) metric when	an you use the area under the curve (AUC) metric when

Less frequently

17 - Quiz	60
Can you use a grid search to choose a model with the "best" confusion matrix?	60 sec
Yes	×
No	✓
18 - Quiz	CO
What metric can you use to determine the "best" confusion matrix?	60 sec
MCC MCC	✓
fl	×
СМ	×
ROC	×
19 - Quiz	30 sec
Classification threshold is 0.8 instead of 0.5. Will the positive class be predicted more frequently or less frequently?	30 SeC
More frequently	×

20 - Quiz	
What value for the classification threshold increases both sensitivity and precision?	60 sec
Below 0.5	×
Above 0.5	X
There is no such value	✓
Exactly 0.5	×
21 - Quiz	20 sec
What is the best possible value for Area Under the Curve (AUC)?	
0	×
0.5	×
1	✓
22 - Quiz	
In cases of class imbalance, is classification accuracy or AUC a more useful evaluation metric for two classes?	30 sec
Accuracy is more useful	×
AUC is more useful	✓
They are equally useful	×
The AUC is not a classification metric	×

23 - Quiz	60 sec
Which of the following hyperparameter(s) when increased might cause Random forest to overfit the data?	00 360
Number of trees	×
Depth of tree	✓
Learning rate	×
All of them	×
24 - Quiz Your ML team decides to use KMeans to separate the	30 sec
following points into 2 groups. Do you agree?	
Yes	×
No	✓
25 - Quiz	70
When a model underfits what is its bias?	30 sec
A High	✓
Low	
	×

26 -	Quiz	
	gh recall and low precision model corresponds to the of having what variance and bias?	120 sec
	high variance and low bias	✓
•	high variance and high bias	×
	low variance and low bias	×
	low variance and high bias	×