





← Go Back to Feature Selection, Model Selection and Tuning

:≡ Course Content

Weekly Quiz - Feature Engineering and Cross Validation

Type : Graded Quiz

Attempts : 1/1
Questions : 10

Time : 30m

Due Date : Nov 22, 2021, 8:30 AM

Your Score : 15/15

Instructions

Attempt History

Attempt #1

Nov 22, 2021, 1:12 AM

Marks: 15

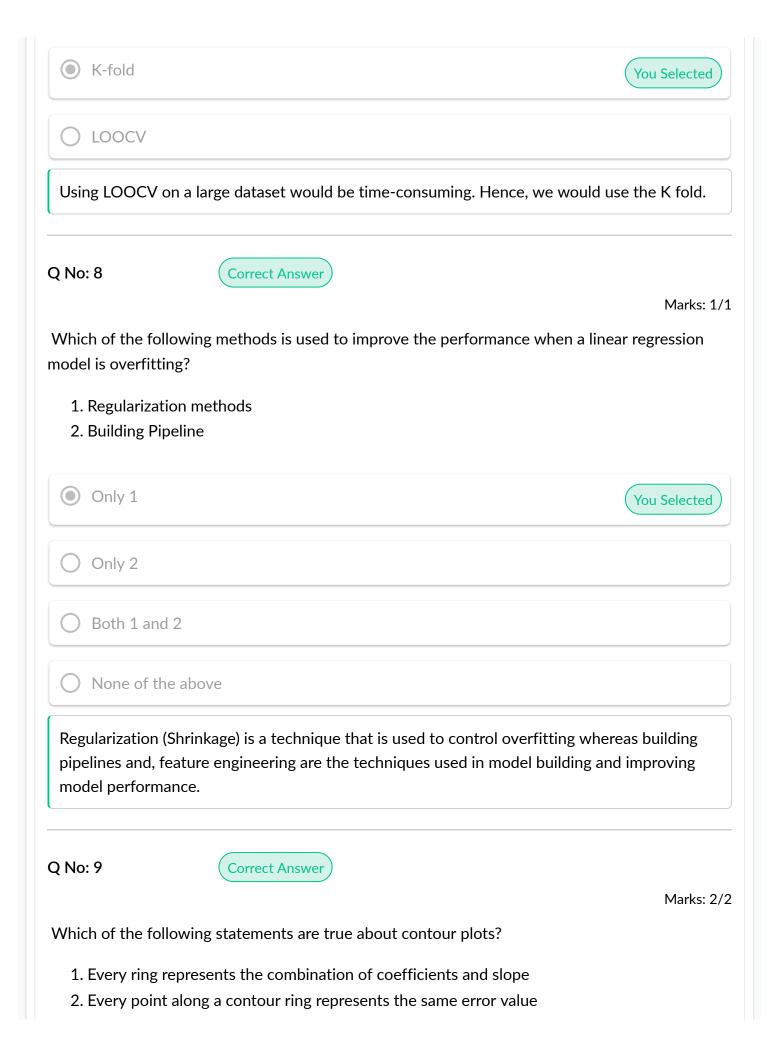
Q No: 1 (Correct Answer)

Marks: 2/2

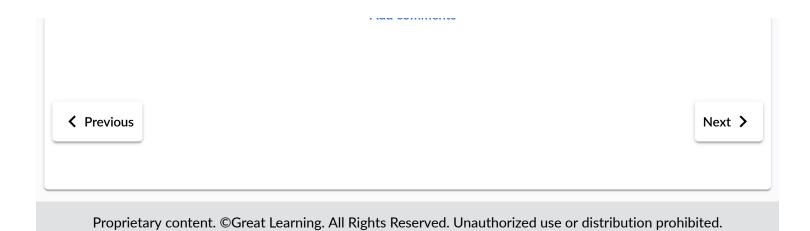
If k=3 in the K-fold cross-validation, how many times each fold will be used in training?

We resample the data when we have imbalanced data to balance out class distribution. Resampling can be done in two ways - Either we oversample the data or undersample the data. SMOTE is one of the over-sampling techniques. Hence, 1 and 2 are the correct options. Q No: 3 **Correct Answer** Marks: 2/2 In a city with a population of 1 million, 500 people have been diagnosed with cancer, whereas the rest of the people do not have cancer. Such a class distribution is considered to be: Balanced Imbalanced You Selected The ratio of the classes is 500 (Have cancer):10,00,000 (Do not have cancer). This clearly indicates that the data is imbalanced. Q No: 4 **Correct Answer** Marks: 1/1 SMOTE (Synthetic Minority Over-sampling Technique) uses which of the following algorithms to create synthetic data? Decision trees KNN Algorithm (K- Nearest Neighbor) You Selected **Linear Regression** Logistic Regression SMOTE uses KNN to create synthetic data.

Q No: 5	Correct Answer	
Which of the following	g split of the data is used to evaluate the final machine learni	Marks: 1/1 ng model?
O Train data		
O Validation data		
Test data		You Selected
model so that we ca	t to train our model, a validation set to check the performand that tweak hyperparameters and perform tuning, and a test set the performance of our final model.	
Q No: 6	Correct Answer	Marks: 1/1
What is the minimum	value of 'K' we can use to perform K-fold Cross Validation,	
O 1		
② 2		You Selected
O 3		
O 4		
Q No: 7	Correct Answer	Marks: 1/1
	00 observations in the dataset then which of the following owould be appropriate to use?	cross-



	de keeps on increasin	g as we move inwards
① 1, 2 and 3		You Select
1, 2 and 4		
2, 3 and 4		
3 and 4		
		nts the combination of slope and coefficient and ever e error value. As we move inwards, the error decreaso
and hence, the ini	nermost ring gives th	e error value. As we move inwards, the error decrease
		e error value. As we move inwards, the error decrease
and hence, the ini	Correct Answer	e error value. As we move inwards, the error decrease e least error.
No: 10 Thich of the follow e dimension of the	Correct Answer	e error value. As we move inwards, the error decrease e least error. Marks
No: 10 hich of the followe dimension of the Ridge Lasso The penalty term	Correct Answer ving regularization ted ne data?	e error value. As we move inwards, the error decrease e least error. Markethniques might make the coefficients zero that reduce



© 2022 All rights reserved

Privacy Terms of service Help