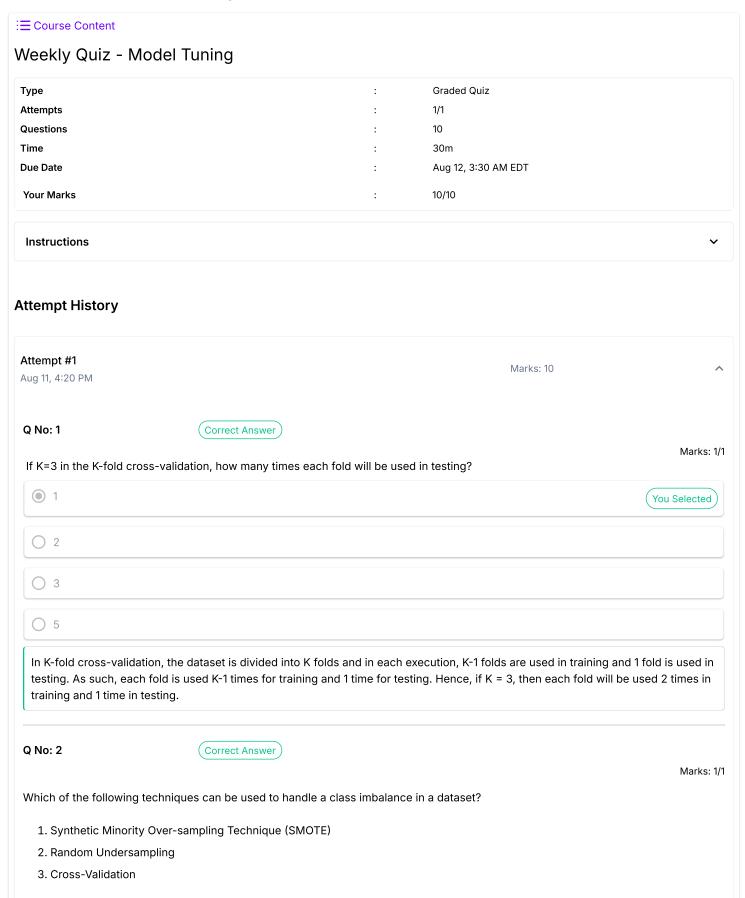








← Go Back to Advanced Machine Learning



Marks: 1/1 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 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 SMOTE (Synthetic Minority Over-sampling Technique) uses which of the following algorithms to create synthetic data? Decision trees KNN Algorithm (K- Nearest Neighbor) Vou Selected Random Forest SMOTE uses KNN to create synthetic data.		
● 1 and 2 (You Selected) 1, 2, and 3 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 undersamplie the data. SMOTE is one of the over-sampling techniques and Random Undersampling is one of the under-sampling techniques. Hence, 1 and 2 are the correct options. Q No: 3 Correct Answer Marks: \$1 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 In 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 Morks: \$1 Morks: \$1 Morks: \$1 Linear Regression Random Forest SMOTE (synthetic Minority Over-sampling Technique) uses which of the following algorithms to create synthetic data? Correct Answer Random Forest SMOTE uses KNN to create synthetic data. Q No: 5 Correct Answer Marks: \$1 Marks: \$1 Marks: \$1	Only 1	
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Correct Answer Linear Regression Random Forest SMOTE uses KNN to create synthetic data. Q No: 5 Correct Answer	O Decision trees	
© Random Forest SMOTE uses KNN to create synthetic data. Q No: 5 Correct Answer Marks: 1/1	KNN Algorithm (K- Nearest Neighbor)	You Selected
SMOTE uses KNN to create synthetic data. Q No: 5 Correct Answer Marks: 1/1	C Linear Regression	
Q No: 5 Correct Answer Marks: 1/1	Random Forest	
Marks: 1/1	SMOTE uses KNN to create synthetic data.	
	Q No: 5 Correct Answer	
	While tuning hyperparameters, the data should be split into three parts - train, validation, and test - to avoid data leakag	

True		You Selected
O False		
the test dataset awa data into train-test t	ens when a certain part of the data is already seen in the training process. That ay and use it only for final evaluation. When we impute the missing values for the then a certain part of the data is leaked in the training process. Regularization is easure to avoid data leakage is to split the data into three sets.	ne entire data and then split the
Q No: 6	Correct Answer	Marries 40
What is the minimum	n value of 'K' that can be used to perform K-fold Cross-Validation?	Marks: 1/
O 1		
2		You Selected
O 3		
O 4		
	set into k folds such that k-1 folds are used for training and the remaining 1 is us could be 2 where 1 fold is used in training and another one in testing.	ed for testing. Hence, the
Tillimina Valde of R	Codid be 2 where 1 lold is used in training and another one in testing.	
Q No: 7	Correct Answer	Marke: 1/
Q No: 7		Marks: 1/
Q No: 7 Which of the following	Correct Answer	,
Q No: 7 Which of the following I. Grid search looks o	Correct Answer ng statements are correct for GridsearchCV?	l.
Q No: 7 Which of the following Grid search looks of the control of the following the	Correct Answer ng statements are correct for GridsearchCV? ponly at a randomly selected subset of hyperparameters from the parameter grid	l.
Q No: 7 Which of the following Grid search looks of the control of the following of the f	Correct Answer ng statements are correct for GridsearchCV? ponly at a randomly selected subset of hyperparameters from the parameter grid	l.
Q No: 7 Which of the following Grid search looks of the control of the following of the following of the control of the following of the control of the co	Correct Answer ng statements are correct for GridsearchCV? ponly at a randomly selected subset of hyperparameters from the parameter grid	l.
Q No: 7 Which of the following Grid search looks of the control of the following of the following of the control of the following of the control of the co	Correct Answer ng statements are correct for GridsearchCV? ponly at a randomly selected subset of hyperparameters from the parameter grid	l. d using the Cross-Validation
Which of the following Grid search looks of the following GridSearchCV evaluate Only 1 1 and 2 Only 2 None Grid search divides	Correct Answer ng statements are correct for GridsearchCV? ponly at a randomly selected subset of hyperparameters from the parameter grid	d using the Cross-Validation You Selected
Which of the following Grid search looks of the following GridSearchCV evaluate Only 1 1 and 2 Only 2 None Grid search divides	correct Answer In g statements are correct for GridsearchCV? In poly at a randomly selected subset of hyperparameters from the parameter grid uates the model for each combination of hyperparameters in the parameter grid the domain of the hyperparameters into a discrete grid. Then every combination	d using the Cross-Validation You Selected

1. Hyperparameters tuning is done on the test set.	
2. Grid search and randomized search methods can be used to perform hyperparameter tuning.	
3. Tuning does not have a significant effect on the model's performance	
4. Choosing optimal hyperparameters can lead to improvements in the overall model's performance	
O 1, 2 and 3	
O 1, 3 and 4	
② 2 and 4	ou Selected
O 1 and 2	
Hyperparameter tuning is done on the training set with the help of a randomized search or grid search method. It has a significant on the model's performance.	gnificant
Q No: 9 Correct Answer	
	Marks: 1/1
Consider a RandomizedSearchCV with the following parameters	
<pre>param_grid={'n_estimators':[50,100,150,200],</pre>	
<pre>gb = GradientBoostingClassifier(random_state=1)</pre>	
<pre>#Calling RandomizedSearchCV clf = RandomizedSearchCV(estimator=gb, param_distributions=param_grid, cv=5, random_state=1, n_i</pre>	ter = 10)
<pre>clf.fit(X_train,y_train)</pre>	
How many times will the randomized search fit the model?	
	ou Selected
O 9	
O 135	
O 27	
Here, n_iter = 10, so the Random search will try only 10 unique models.	
CV = 5, so every model will be fit 5 times	
Therefore, the model will be fit 10*5 = 50 times	
Q No: 10 (Correct Answer)	
	Marks: 1/1

1. We should tweak the hyperparts	arameters based on the model's performance on the validati	on set
2. Hyperparameter tuning can h	nelp us deal with both overfitting and underfitting	
Only 1		
Only 2		
1 and 2		You Selecte
) None		
ne hyperparameters are tweake dealing with the underfitting an	ed based on the performance of the validation set. Tuning he nd overfitting of the model. As we can tweak hyperparamete for tuning.	
he hyperparameters are tweake dealing with the underfitting a o fixed set of values to be used	nd overfitting of the model. As we can tweak hyperparamete	
he hyperparameters are tweake	nd overfitting of the model. As we can tweak hyperparamete	

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