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## Logistics Regression - 2 quiz

8 out of 8 correct

Which of the following is a technique for tuning hyperparameters that exhaustively searches a specified subset of the hyperparameter space?		
$\bigcirc$	Randomize search cv	
$\bigcirc$	Data leakage	
$\bigcirc$	Confusion matrix	
	Grid search cv	
	nation: Grid search cv is a technique that exhaustively searches a fied subset of the hyperparameter space.	
2. Which of the following is a technique for tuning hyperparameters that randomly samples a specified subset of the hyperparameter space?		
$\bigcirc$	Data leakage	
$\bigcirc$	Confusion matrix	
	Randomize search cv	
$\bigcirc$	Grid search cv	
<b>Explanation:</b> Randomize search cv is a technique that randomly samples a specified subset of the hyperparameter space.		
3. What is data leakage?		

When data is accidentally or intentionally leaked to the public

$\bigcirc$	when the test data is used to train the model	
	When the training data contains information that would not be available in the real world	
$\bigcirc$	None of the above	
Explanation: Data leakage occurs when the training data contains information that would not be available in the real world, leading to overfitting and inaccurate results.		
	hich of the following is a tool used to evaluate the performance of a assification model?	
$\bigcirc$	Grid search cv	
$\bigcirc$	Randomize search cv	
$\bigcirc$	Data leakage	
	Confusion matrix	
<b>Explanation:</b> A confusion matrix is a tool used to evaluate the performance of a classification model.		
5. W	hat is the precision of a model?	
$\bigcirc$	The number of true positives divided by the number of false positives	
$\bigcirc$	The number of true positives divided by the sum of true positives and false negatives	
	The number of true positives divided by the sum of true positives and false positives	
$\bigcirc$	The number of true negatives divided by the sum of true negatives and false positives	
Explanation: Precision measures the proportion of true positives out of all predicted positives.		
6 \	that is the recall of a model?	

	The number of true positives divided by the sum of true positives and false negatives
$\bigcirc$	The number of true positives divided by the sum of true positives and false positives
$\bigcirc$	The number of true positives divided by the number of false positives
$\circ$	The number of true negatives divided by the sum of true negatives and false positives
<b>Expla</b> positi	nation: Recall measures the proportion of true positives out of all actual ves.
7. W	hat is the F1 score of a model?
$\bigcirc$	The weighted average of precision and recall
	The harmonic mean of precision and recall
$\bigcirc$	The arithmetic mean of precision and recall
$\bigcirc$	None of the above
<b>Explanation:</b> The F1 score is a weighted average of precision and recall, with more emphasis on the smaller value.	
	hich of the following hyperparameters can be tuned using grid search cv r a logistic regression classifier?
$\bigcirc$	С
$\bigcirc$	Penalty
	L1 ratio
$\bigcirc$	n_neighbors
Expla	nation: The hyperparameters that can be tuned using grid search cv for a

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logistic regression classifier are C and the choice of penalty ('11' or '12').

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