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10th April quiz

6 out of 6 correct

l. What is a confusion matrix used for?		
Evaluating regression models		
Evaluating classification models		
Evaluating clustering models		
None of the above		
Explanation: A confusion matrix is used to evaluate the performance of a classification model by measuring how well it can predict the correct class label for each instance in a dataset.		
2. Which of the following metrics measures the proportion of true positives among all positive predictions?		
Precision		
Recall		
○ F1 score		
all the above		
Explanation: Precision measures the proportion of true positives among all		

Explanation: Precision measures the proportion of true positives among all positive predictions made by the model. It is calculated as TP / (TP + FP).

3. Which of the following metrics measures the proportion of true positives among all actual positives?



○ F1 score			
all of the above			
Explanation: Recall measures the proportion of true positives among all actual positive instances in the dataset. It is calculated as TP / (TP + FN).			
4. What is a ROC curve used for?			
Evaluating regression models			
Evaluating classification models			
Evaluating clustering models			
all the above			
Explanation: An ROC (Receiver Operating Characteristic) curve is used to evaluate the performance of a binary classification model. It plots the true positive rate (TPR) against the false positive rate (FPR) for different classification thresholds.			
5. Which of the following is a measure of how well a binary classifier can distinguish between positive and negative examples?			
Precision			
Recall			
AUC			
(a) and (b)			

Explanation: AUC (Area Under the Curve) is a measure of how well a binary classifier can distinguish between positive and negative examples. It measures the area under the ROC curve and provides a single score to evaluate the overall performance of a classification model.

6. Which of the following is true for a perfect classifier?

Precision = Recall = F1 score = 1.0

\bigcirc	Precision = Recall = F1 score = 0.0
\bigcirc	Precision = Recall = F1 score = 0.5
\bigcirc	none of the above

Explanation: A perfect classifier correctly predicts all positive and negative instances in the dataset, resulting in precision, recall, and F1 score of

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