Machine Learning

Data Pre Processing

Regression

Classification

Clustering

Reinforcement Learning

Natural Language Processing

Artificial Intelligence

QUIZ TOPIC - CLASSIFICATION

○ A.	Area under the ROC curve
○ В.	F1 score
○ C.	Confusion matrix
O D.	All of the above ✓
2. Whi o	ch one is a classification algorithm?
A.	Logistic regression ✓
○ В.	Linear regression
○ C.	Polynomial regression
O D.	None
3. Class	sification is-
○ A.	Unsupervised learning
○ В.	Reinforcement learning
○ C.	Supervised learning ✓
\bigcirc D	
О D.	None
4. You and co	have a dataset of different flowers containing their petal lengths lor. Your model has to predict the type of flower for given petal s and color. This is a-
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Classification	Ai Ouiz Ou	actions
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	D. None
7. V	Vith the help of a confusion matrix, we can compute-
	A. Recall
	B. Precision
	C. Accuracy
(D. All of the above 🗸
3. V	What does recall refer to in classification?
	A. The proportion of all the relevant data points 🗸
	B. The proportion of only the correct data points
	C. The proportion of all data points
	D. None
9. F	alse negatives are-
	A. Predicted negatives that are actually positives 🗸
	B. Predicted positives that are actually negatives
	C. Predicted negatives that are actually negatives
	D. Predicted positives that are actually positives
	Suppose your classification model predicted true for a class which ual value was false. Then this is a-
	A. False positive 🗸
	B. False negative
	C. True positive
	D. True negative
	The false negative value is 5 and the true positive value is 20. What I be the value of recall-
	O A. 0.2
	B. 0.6
	© C. 0.8 ✓
	D. 0.3

○ B. 0	4 ✓
○ C. 0	.5
O D. N	Ione
13. If the	e precision is 0.6 and the recall value is 0.4. What will be the form
A. 0	.5 ✔
○ B. 0	6
○ C. 0	4
○ D. 0	.3
14. Whic	th one is a different algorithm?
OA. L	ogistic Regression 🗸
○ B. S	upport Vector Regression
○ C. P	olynomial Regression
O D. N	lone
15. Wha	t is a support vector?
	t is a support vector? he distance between any two data points
○ A. T	
○ A. T ○ B. T	he distance between any two data points
○ A. T ○ B. T ○ C. T	he distance between any two data points ne average distance between all the data points
○ A. T ○ B. T ○ C. T ○ D. T	he distance between any two data points ne average distance between all the data points he distance between two boundary data points
○ A. T ○ B. T ○ C. T ○ D. T	he distance between any two data points he average distance between all the data points he distance between two boundary data points he minimum distance between any two data points the of the following is a lazy learning algorithm?
○ A. T ○ B. T ○ C. T ○ D. T	he distance between any two data points he average distance between all the data points he distance between two boundary data points he minimum distance between any two data points the of the following is a lazy learning algorithm?
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● A. Euclidean distance ✓
O B. Manhattan distance
○ C. Perpendicular distance
O D. All of the above
19. Which of the following is the best algorithm for text classification?
O A. KNN
○ B. Decision tree
○ C. Random forest
20. What does k stand for in the KNN algorithm?
○ B. Number of output classes
○ C. Number of input features
○ D. None
21. Support Vector Machine is-
● A. a discriminative classifier
○ B. a lazy learning classifier
○ C. a probabilistic classifier
○ D. None
22. What are hyperplanes?
● A. Decision boundaries
○ B. Decision functions
○ C. Mapping functions
○ D. None
23. What is a kernel?
○ A. A function that calculates the distance of two boundary data points
$lacktriangle$ B. A function that maps the value from one dimension to the other \checkmark
\bigcirc C. A function that predicts the output value of a regression
○ D. None
24. Which of the following is not a kernel?
○ A. Polynomial Kernel

- OB. Gaussian Kernel
- O C. Sigmoid Kernel
- O D. None ✓

25. Why Naive Bayes is called naive?

- A. Because its assumption may or may not true

 ✓
- OB. Because it's a bad classifier
- C. The accuracy is very poor
- O D. All of the above

26. For two events A and B, the Bayes theorem will be-

- \bigcirc A. P(A | B) = P(B) * P(B | A) / P(A)
- \bigcirc B. P(A | B) = P(A) * P(B | A) / P(B) ✓
- \bigcirc C. P(A | B) = P(B) * P(A | B) / P(A)
- \bigcirc D. P(A | B) = P(A) * P(A | B) / P(B)

27. How does a decision tree work?

- O A. Minimizes the information gain and maximizes the entropy
- B. Maximizes the information gain and minimizes the entropy
- O C. Minimizes the information gain and minimizes the entropy
- O D. Maximizes the information gain and maximizes the entropy

28. Suppose you have a dataset that is randomly distributed. What will be the best algorithm for that dataset?

- A. Support vector machine **×**
- OB. Naive Bayes
- C. K nearest neighbors
- D. Decision tree

29. Which pair of the algorithms are similar in operation?

- O A. SVM and KNN
- B. Decision tree and Random forest
- C. SVM and Naive Bayes **×**
- D. All of the above 🗙

30. Which metric is not used for evaluating classification models?

O A. AUC ROC score

○ B. Accuracy
O D. Precision



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