

1) Among the following identify the one in which dimensionality reduction reduces.

Ans : D

2) Which of the following machine learning algorithm is based upon the idea of bagging?

Ans :B

3) Choose a disadvantage of decision trees among the following.

Ans : C

4) What is the term known as on which the machine learning algorithms build a model based on sample data?

Ans : C

5)Which of the following machine learning techniques helps in detecting the outliers in data?

Ans : C

6) Identify the incorrect numerical functions in the various function representation of machine learning.

Ans : C

7)Analysis of ML algorithm needs

Ans : D

8)Identify the difficulties with the k-nearest neighbor algorithm.

Ans : C

9)The total types of the layer in radial basis function neural networks is _____

Ans : C

10)Which of the following is not a supervised learning

Ans : A

11) What is unsupervised learning?

Ans : C

12) Which of the following is not a machine learning algorithm?

Ans : B

13) _____ is the scenario when the model fails to decipher the underlying trend in the input data

Ans : B

14) Real-Time decisions, Game AI, Learning Tasks, Skill acquisition, and Robot Navigation are applications of

Ans : A

15) What is called the average squared difference between classifier predicted output and actual output?

Ans :B

16) Logistic regression is a regression technique that is used to model data having a outcome.

Ans : D

17) You are given reviews of few netflix series marked as positive, negative and neutral. Classifying reviews of a new netflix series is an example of

Ans : A

18) Following is powerful distance metrics used by Geometric model

Ans :C

19) Which of the following techniques would perform better for reducing dimensions of a data set?

Ans : A

20) Supervised learning and unsupervised clustering both require which is correct according to the statement

Ans :B

21) What is the meaning of hard margin in SVM?

Ans :A

22) Increase in which of the following hyper parameter results into overfit in Random forest? (1). Number of Trees. (2). Depth of Tree, (3). Learning Rate

Ans : B

23) Below are the 8 actual values of target variable in the train file: [0,0,0, 0, 1, 1,1,1,1,1], What is the entropy of the target variable?

Ans :A

24) Lasso can be interpreted as least-squares linear regression where

Ans :A

25) Consider the problem of binary classification. Assume I trained a model on a linearly separable training set, and now I have a new labeled data point that the model properly categorized and is far away from the decision border. In which instances is the learnt decision boundary likely to change if I now add this additional point to my previous training set and re-train? When the training model is,

Ans :B

26) Assume you've discovered multi-collinear features. Which of the following actions do you intend to take next? (1). Both collinear variables should be removed. (2). Instead of deleting both variables, we can simply delete one. (3). Removing correlated variables may result in information loss. We may utilize penalized regression models such as ridge or lasso regression to keep such variables.

Ans D

27) A least squares regression study of weight (y) and height (x) yielded the following least squares line: $y = 120 + 5x$. This means that if the height is increased by one inch, the weight should increase by what amount?

Ans B

28) The line described by the linear regression equation (OLS) attempts to ____?

Ans : D

29) For two real-valued attributes, the correlation coefficient is 0.85. What does this value indicate?

Ans : A

30) Which neural network architecture would be most suited to handle an image identification problem (recognizing a dog in a photo)?

Ans : B