Advanced Machine Learning Challenge

Below is a scored review of your assessment. All questions are shown.

Correct Answer | Partially Correct | Incorrect Answer

1 Jaccard distance is a metric for comparing two binary data strings. While comparing two binary strings of equal length, Jaccard distance is the number of bit positions in which the two bits are different.

Your Answer	True
Correct Answer	False

Explanation

Hamming distance is a metric for comparing two binary data strings. While comparing two binary strings of equal length, Hamming distance is the number of bit positions in which the two bits are different.

2 How do you choose the right node while constructing a decision tree?

Your Answer [no answer given]

Correct Answer An attribute having the highest information gain.

Explanation

Sorry, you have selected the wrong answer.

3 The topic of a corpus comprise a number of topics.

Your Answer [no answer given]

Correct Answer False

Explanation

None.

4 What are the possible constituent models of a hybrid recommender system (check all that apply)?

Your Answer	[no answer given]
Correct Answer	Collaborative Filtering Content-Based Filtering

Explanation

None.

5 Which of the following can act as possible termination conditions in K-Means?

Your Answer	[no answer given]
Correct Answer	For a fixed number of iterations. Assignment of observations to clusters does not change between iterations. Except for cases with a bad local minimum. Centroids do not change between successive iterations. Terminate when RSS falls below a threshold.

Explanation

Sorry, you have selected the wrong answer.

6 A procedure used for finding the equation of a straight line which provides the best approximation for the relationship between the independent and dependent variables is

Your Answer [no answer given]

Correct Answer the least squares method

Explanation

You selected the wrong option.

7 Regarding bias and variance, which of the following statements are true? (Here 'high' and 'low' are relative to the ideal model.)

Your Answer	[no answer given]
Correct Answer	Models which overfit have a low bias. Models which underfit have a low variance

Explanation

Sorry, you have selected the wrong answer.

8 Logistic Regression is a _____ regression technique that is used to model data having a _____ outcome.

Your Answer [no answer given]

Correct Answer Non-linear , binary

Explanation

Incorrect. Probablity cann't be nagative. Therefore, the Right answers are 1,2,4.

9 In natural language understanding (NLU) tasks, there is a hierarchy of lenses through which we can extract meaning — from words to sentences to paragraphs to documents.

Your Answer [no answer given]

Correct Answer True

Explanation

None.

10 Q9. Which of the following clustering algorithms suffers from the problem of convergence at local optima?

Your Answer	[no answer given]
Correct Answer	K- Means clustering algorithm Expectation-Maximization clustering algorithm

Explanation

Sorry, you have selected the wrong answer.

11 The curse of dimensionality refers to all the problems that arise working with data in the higher dimensions.

Your Answer	[no answer given]
Correct Answer	True

Explanation

Actually, this is a true statement.

12 The Naive Bayes Classifier is a _____ in probability.

Your Answer [no answer given]

Correct Answer Classification

Explanation

Sorry! This needs work.

13 Would reducing the dimensions by doing PCA affect the anomalies in a dataset? Would it lead to the disappearance of the anomalies?

Your Answer	[no answer given]
Correct Answer	Partially

Explanation

Sorry, you have selected the wrong answer.

14 Binning is the process of transforming numerical variables into categorical counterparts.

Your Answer	[no answer given]
Correct Answer	True

Explanation

None.

15 Spam email detection comes under which domain?

Your Answer [no answer given]

Correct Answer Text Classification

Explanation

None.

16 Pick the true statements.

Your Answer	[no answer given]
Correct Answer	Outlier are observations that are distant from the mean or location of a distribution Outliers don't necessarily represent abnormal behavior or behavior generated by a different process Anomalies are data patterns that are generated by different processes.

Explanation

Sorry, you have selected the wrong answer.

17 What are the steps for using a gradient descent algorithm? Calculate error between the actual value and the predicted value Reiterate until you find the best weights of network Pass an input through the network and get values from output layer Initialize random weight and bias Go to each neurons which contributes to the error and change its respective values to reduce the error

Your Answer	[no answer given]
Correct Answer	4, 3, 1, 5, 2

Explanation

Sorry, you have selected the wrong answer.

18 Which of the following is the second goal of PCA?

Your Answer [no answer given]

Correct Answer Data Compression

Explanation

Sorry, you have selected the wrong answer.

19 In a naive Bayes algorithm, when an attribute value in the testing record has no example in the training set, then the entire posterior probability will be zero.

Your Answer [no answer given]

Correct Answer True

Explanation

Sorry! This needs work.

20 Which of the following is true when you choose fraction of observations for building the base learners in tree based algorithm?

Your Answer	[no answer given]
Correct Answer	Decrease the fraction of samples to build a base learners will result in decrease in variance

Explanation

Sorry, you have selected the wrong answer.

Page 1 of 5

Summary Next Page

I'm done.

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