



Advanced Machine Learning Challenge

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



Correct Answer



Partially Correct



Incorrect Answer

41

What is the final resultant cluster size in Divisive algorithm, which is one of the hierarchical clustering approaches?

Your Answer

[no answer given]

Correct Answer

singleton

Explanation

Incorrect!

42 Which of the following metrics can be used for evaluating regression models?

Your Answer

[no answer given]

Correct Answer

RMSE / MSE / MAE
Adjusted R Squared
F Statistics
R Squared

Explanation

No, that's not correct.

43 Logistic regression is _____ when the observed outcome of dependent variable aren't ordered.

Your Answer [no answer given]

Correct Answer multinomial

Explanation

Sorry, you have selected the wrong answer.

44 In Random forest you can generate hundreds of trees (say T_1, T_2, \dots, T_n) and then aggregate the results of these tree. Which of the following is true about individual(T_k) tree in Random Forest?

Your Answer [no answer given]

Correct Answer Individual tree is built on a subset of the features
Individual tree is built on a subset of observations

Explanation

Sorry, you have selected the wrong answer.

45 Which of the following statements about Naive Bayes are correct?

Your Answer

[no answer given]

Correct Answer

attributes are equally important.
attributes are statistically independent of one another given the class value.
attributes can be nominal or numeric

Explanation

Sorry, you have selected the wrong answer.

46 We should remove highly correlated variables before doing PCA.

Your Answer [no answer given]

Correct Answer No

Explanation

Sorry, you have selected the wrong answer. Because, PCA loads out all highly correlated variables on the same Principal Component (Eigenvector), not different ones.

47 LIME is an example of

Your Answer

[no answer given]

Correct Answer

Model-Agnostic Approach

Explanation

None.

48 What's the cost function of the logistic regression?

Your Answer [no answer given]

Correct Answer both (A) and (B)

Explanation

Sorry, you have selected the wrong answer.

49 Which one of the following statements is TRUE for a Decision Tree?

Your Answer

[no answer given]

Correct Answer

In a decision tree, the entropy of a node decreases as we go down a decision tree.

Explanation

Sorry, you have selected the wrong answer.

50 LDA is a

Your Answer

[no answer given]

Correct Answer

Generative probabilistic process

Explanation

None.

51

In Latent Dirichlet Allocation model for text classification purposes, what does alpha and beta hyperparameter represent?

Your Answer

[no answer given]

Correct Answer

Alpha: density of topics generated within documents, beta: density of terms generated within topics

Explanation

None.

52

Which of the following methods does not have closed form solution for its coefficients?

Your Answer

[no answer given]

Correct Answer

Lasso Regression

Explanation

No, that's not correct.

53

What is Machine Translation?

Your Answer

[no answer given]

Correct Answer

Converts one human language to another

Explanation

None.

54 What will happen if you don't rotate the components?

Your Answer [no answer given]

Correct Answer PCA will diminish

Explanation

Sorry, you have selected the wrong answer.

55

Which of the following is a disadvantage of decision trees?

Your Answer

[no answer given]

Correct Answer

Decision trees are prone to be overfit

Explanation

Sorry, you have selected the wrong answer.

56 Examples of Naive Bayes Algorithm is/are

Your Answer

[no answer given]

Correct Answer

Spam filtration
Sentimental analysis
Classifying articles

Explanation

No, that's not correct.

57 For Ridge Regression, if the regularization parameter is very high, which options are true?

Your Answer [no answer given]

Correct Answer Large coefficients are not penalized

Explanation

No, that's not correct.

58 In boosting trees, individual weak learners are independent of each other

Your Answer [no answer given]

Correct Answer False

Explanation

In boosting tree individual weak learners are not independent of each other because each tree correct the results of previous tree. Bagging and boosting both can be consider as improving the base learners results.

59

Logarithmic transformation helps to handle skewed data and after transformation, the distribution becomes more approximate to normal.

Your Answer

[no answer given]

Correct Answer

True

Explanation

None.

60 Clustering analysis is negatively affected by multicollinearity of features

Your Answer [no answer given]

Correct Answer True

Explanation

Sorry, you have selected the wrong answer.

Summary

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I'm done.

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