Advanced Machine Learning Challenge

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

Correct Answer | Partially Correct | Incorrect Answer

81 Support vectors are the data points that lie farthest to the decision surface.

Your Answer	[no answer given]
Correct Answer	False

Explanation

Actually, This is a false statement.

82 Decision tree is also referred to as

Your Answer	[no answer given]
Correct Answer	Recursive partitioning

Explanation

Sorry, you have selected the wrong answer.

83 Why are SVMs fast?

Your Answer	[no answer given]
Correct Answer	Quadratic optimization (convex!) They work in the dual, with relatively few points The kernel trick

Explanation

Incorrect. The corect options are 1,2 and 3.

84 Hierarchical clustering algorithms suffers from the problem of convergence at local optima?

Your Answer [no answer given]

Correct Answer True

Explanation

No, that's not correct.

85 In Content-Based Filtering, we usea very popular technique in information retrival named_____

Your Answer [no answer given]

Correct Answer TF-IDF

Explanation

None.

86 What do you mean by generalization error in terms of the SVM?

Your Answer	[no answer given]
Correct Answer	How accurately the SVM can predict outcomes for unseen data

Explanation

Sorry, you have selected the wrong answer.

87 Seasonal variation means the variation occurring within:

Your Answer [no answer given]

Correct Answer Parts of a year

Explanation

None.

88 What's the the hypothesis of logistic regression?

Your Answer	[no answer given]
Correct Answer	to limit the cost function between 0 and 1

Explanation

Actually, This is a True statement.

89 Univariate analysis is the simplest form of analyzing data. “Uni” means “one”, so in other words your data has only one variable.

Your Answer	[no answer given]
Correct Answer	True

Explanation

None.

90 Suppose you have trained an anomaly detection system for fraud detection, and your system that flags anomalies when p(x) is less than ε, and you find on the cross-validation set that it is missing many fradulent transactions (i.e., failing to flag them as anomalies). What should you do?

Your Answer	[no answer given]
Correct Answer	Increase ε

Explanation

Sorry, you have selected the wrong answer.

91 The log likelihood is parallel to?

Your Answer	[no answer given]
Correct Answer	The F-test in OLS regression

Explanation

Sorry, you have selected the wrong answer.

92 Which of the following is finally produced by Hierarchical Clustering?

Your Answer [no answer given]

Correct Answer tree showing how close things are to each other

Explanation

Sorry, you have selected the wrong answer.

93 A typical example of Memory-based approach is User Neighbourhood-based CF.

Your Answer	[no answer given]
Correct Answer	True

Explanation

None.

94 What do you expect will happen with bias and variance as you increase the size of training data?

Your Answer	[no answer given]
Correct Answer	Bias increases and Variance decreases

Explanation

Sorry, you have selected the wrong answer.

95 Prosperity, Recession, and depression in a business is an example of

Your Answer [no answer given]

Correct Answer Cyclical Trend

Explanation

None.

96 What property in a model is bias-variance trade off?

Your Answer	[no answer given]
Correct Answer	The variance can be reduced by increasing the bias

Explanation

No, that's not correct.

97 Select the correct option about regression with L2 regularization. A. Ridge regression technique prevents coefficients from rising too high. B. As $\lambda \rightarrow \infty$, the impact of the penalty grows, and the ridge regression coefficient estimates will approach infinity.

Your Answer	[no answer given]
Correct Answer	Statement A is true, Statement B is false

Explanation

Incorrect!

98 Which of the following is correct use of cross validation?

Your Answer	[no answer given]
Correct Answer	All of the mentioned

Explanation

No, that's not correct.

99 What would be then consequences for the OLS estimator if heteroscedasticity is present in a regression model but ignored?

Your Answer	[no answer given]
Correct Answer	It will be inefficient

Explanation

Incorrect!

100 Which of the following statements is True related to K-NN algorithm?

Your Answer	[no answer given]
Correct Answer	K-NN is a non-parametric algorithm It is also called a lazy learner algorithm It is robust to the noisy training data

Explanation

Sorry, you have selected the wrong answer.

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Summary Prev Page

I'm done.