Quiz_Introduction to Data Science

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Programme and Branch *

Batch *
B3
Which of the following can act as possible termination conditions in K-Means?
 For a fixed number of iterations. The 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. (1 Point) *
O 1, 2, 3
1, 2, 4
2, 3, 4
All of the above
Principal component is a technique for (1 Point) *
Feature selection

Dimensionality reduction
Exploration
None of the aboive
Out of 200 emails, a classification model correctly predicted 150 spam emails and 30 ham emails. What is the accuracy of the model? (1 Point) *
O 10 %
90 %
O 80 %
None of the above
What is the minimum no. of variables/ features required to perform clustering? (1 Point) *
O 0
1
<u> </u>

Any hypothesis find an approximation of the target function over a sufficiently large set of training examples will also approximate the target function well over other unobserved examples. This is called (1 Point) *
Hypothesis
Inductive hypothesis
Learning
Concept learning
Which of the following algorithm is most sensitive to outliers? (1 Point) *
K-means clustering algorithm
K-medians clustering algorithm
K-modes clustering algorithm
K-medoids clustering algorithm

Which of the following is a data reduction technique? (1 Point) *
Clustering
Classification
Sampling
Regression
Which of the following is not a type of decision tree node? (1 Point) *
Root node
Leaf node
Oecision node
Branch node
Which of the following refers to the problem of finding abstracted patterns (or structures) in the unlabeled data? (1 Point) *
Supervised learning

Unsupervised learning
Hybrid learning
Reinforcement learning
Which of the following is a classification algorithm? (1 Point) *
K-means
Oecision tree
Apriori
None of the above
Which of the following is the most appropriate strategy for data cleaning before performing clustering analysis, given less than the desirable number of data points? 1. Capping and flouring of variables 2. Removal of outliers (1 Point) *
1 only
O 2 only

1 and 2 only
None of the above
Can decision trees be used for performing clustering? (1 Point) *
True
False
Which is a type of machine learning where a target feature, which is of categorical type, is predicted for the test data on the basis of the information imparted by the training data? (1 Point) *
Unsupervised Learning
Supervised Regression
Supervised Classification
Categorical Attribute
For two runs of K-Mean clustering, is it expected to get the same clustering results? (1 Point) *
Yes

Entropy

In feature extraction, some of the commonly used are used for combining the original features. (1 Point) *
Operators
Delimiters
Words
All of the above
Which of the following options is true about the kNN algorithm? (1 Point) *
It can be used only for classification
It can be used only for regression
It can be used for both classification and regression
It is not possible to use for both classification and regression
This type of interpretation of probability tries to quantify the uncertainty of some event and thus focuses on information rather than repeated trials. (1 Point) *
Frequency interpretation of probability

Gaussian interpretation of probability
Machine learning interpretation of probability
Bayesian interpretation of probability
A good feature has which of the following characteristics? (1 Point) *
It should be known at prediction time
It should be related to the objective
It should be numeric with meaningful magnitude
All of the above

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