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126. How can we best represent ‘support’ for the following association rule: “If X and Y, then Z”.

A. $\{x,y\}/(\text{total number of transactions})$

B. $\{z\}/(\text{total number of transactions})$

C. $\{z\}/\{x,y\}$

D. $\{x,y,z\}/(\text{total number of transactions})$

C. $\{z\}/\{x,y\}$

discuss

127. Choose the correct statement with respect to ‘confidence’ metric in association rules

A. it is the conditional probability that a randomly selected transaction will include all the items in the consequent given that the transaction includes all the items in the antecedent.

B. a high value of confidence suggests a weak association rule

C. it is the probability that a randomly selected transaction will include all the items in the consequent as well as all the items in the antecedent.

D. confidence is not measured in terms of (estimated) conditional probability.

A.it is the conditional probability that a randomly selected transaction will include all the items in the consequent given that the transaction includes all the items in the antecedent.

discuss

A. classifiers which form a tree with each attribute at one level

B. classifiers which perform series of condition checking with one attributeat a time

C. both options except none

D. none of the options

C.both options except none

discuss

129. What is gini index?

A. it is a type of index structure

B. it is a measure of purity

C. both options except none

D. none of the options

B. it is a measure of purity

discuss

130. Which of the following sentences are correct in reference to Information gain?

a. It is biased towards single-valued attributes

b. It is biased towards multi-valued attributes

c. ID3 makes use of information gain

d. The approact used by ID3 is greedy

A. a and b

B. a and d

C. b, c and d

D. all of the above

C.b, c and d

discuss

131. Multivariate split is where the partitioning of tuples is based on acombination of attributes rather than on a single attribute.

A. true

B. false

A.true

discuss

132. Gain ratio tends to prefer unbalanced splits in which one partition is much smaller than the other

A. true

B. false

A.true

discuss

133. The gini index is not biased towards multivalued attributed.

A. true

B. false

B.false

discuss

134. Gini index does not favour equal sized partitions.

A. true

B. false

B.false

discuss

135. When the number of classes is large Gini index is not a good choice.

A. true

B. false

A.true

discuss

136. Attribute selection measures are also known as splitting rules.

A. true

B. false

A.true

discuss

137. his clustering approach initially assumes that each data instance represents a single cluster.

A. expectation maximization

B. k-means clustering

C. agglomerative clustering

D. conceptual clustering

C.agglomerative clustering

discuss

A. the output attribute must be categorical

B. all attribute values must be categorical

C. all attributes must be numeric

D. attribute values may be either categorical or numeric

C.all attributes must be numeric

discuss

139. KDD represents extraction of

A. data

B. knowledge

C. rules

D. model

B.knowledge

discuss

140. The most general form of distance is

A. manhattan

B. eucledian

C. mean

D. minkowski

B.eucledian

discuss

141. Which of the following algorithm comes under the classification

A. apriori

B. brute force

C. dbscan

D. k-nearest neighbor

D.k-nearest neighbor

discuss

142. Hierarchical agglomerative clustering is typically visualized as?

A. dendrogram

B. binary trees

C. block diagram

D. graph

A.dendrogram

discuss

143. The _____ step eliminates the extensions of (k-1)-itemsets which are not found to be frequent,from being considered for counting support

A. partitioning

B. candidate generation

C. itemset eliminations

D. pruning

D.pruning

discuss

A. supremum distance

B. eucledian distance

C. linear distance

D. manhattan distance

B.eucledian distance

discuss

145. Which one of these is not a tree based learner?

A. cart

B. id3

C. bayesian classifier

D. random forest

C.bayesian classifier

discuss

146. Which one of these is a tree based learner?

A. rule based

B. bayesian belief network

C. bayesian classifier

D. random forest

D.random forest

discuss

147. What is the approach of basic algorithm for decision tree induction?

A. greedy

B. top down

C. procedural

D. step by step

A. greedy

discuss

148. Which of the following classifications would best suit the student performance classification systems?

A. if...then... analysis

B. market-basket analysis

C. regression analysis

D. cluster analysis

A.if...then... analysis

discuss

149. Given that we can select the same feature multiple times during the recursive partitioning of the input space, is it always possible to achieve 100% accuracy on the training data (given that we allow for trees to grow to their maximum size) when building decision trees?

A. yes

B. no

B. no

discuss

150. This clustering algorithm terminates when mean values computed for the current iteration of the algorithm are identical to the computed mean values for the previous iteration

A. k-means clustering

B. conceptual clustering

C. expectation maximization

D. agglomerative clustering

A.k-means clustering

discuss

« Set 5

Set 7 »

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