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« Set 8

9 of 31

Set 10 »

201. 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 Select one:

A. k-means clustering

B. conceptual clustering

C. expectation maximization

D. agglomerative clustering

A.k-means clustering

discuss

202. Which one of the following is the main reason for pruning a Decision Tree?

A. to save computing time during testing

B. to save space for storing the decision tree

C. to make the training set error smaller

D. to avoid overfitting the training set

D.to avoid overfitting the training set

discuss

203. You've just finished training a decision tree for spam classification, and it is getting abnormally bad performance on both your training and test sets. You know that your implementation has no bugs, so what could be causing the problem?

A. your decision trees are too shallow.

B. you need to increase the learning rate.

C. you are overfitting.

D. incorrect data

A.your decision trees are too shallow.

discuss

204. The K-means algorithm:

A. requires the dimension of the feature space to be no bigger than the number of samples

B. has the smallest value of the objective function when k = 1

C. minimizes the within class variance for a given number of clusters

D. converges to the global optimum if and only if the initial means are chosen as some of the samples themselves

C.minimizes the within class variance for a given number of clusters

discuss

205. Which of the following metrics, do we have for finding dissimilarity between two clusters in hierarchical clustering?

1. Single-link

2. Complete-link

3. Average-link

A. 1 and 2

B. 1 and 3

C. 2 and 3

D. 1, 2 and 3

D.1, 2 and 3

discuss

206. In which of the following cases will K-Means clustering fail to give good results?

1. Data points with outliers

2. Data points with different densities

3. Data points with round shapes

4. Data points with non-convex shapes

A. 1 and 2

B. 2 and 3

C. 2 and 4

D. 1, 2 and 4

D.1, 2 and 4

discuss

207. Hierarchical clustering is a supervised learning technique.

A. true

B. false

C. depends on data

D. cannot say

A.true

discuss

208. High entropy means that the partitions in classification are

A. pure

B. not pure

C. useful

D. useless

B.not pure

discuss

209. Suppose we would like to perform clustering on spatial data such as the geometrical locations of houses. We wish to produce clusters of many different sizes and shapes. Which of the following methods is the most appropriate?

A. decision trees

B. density-based clustering

C. model-based clustering

D. k-means clustering

B.density-based clustering

discuss

210. The main disadvantage of maximum likelihood methods is that they are _____

A. mathematically less folded

B. mathematically less complex

C. mathematically less complex

D. computationally intense

D.computationally intense

discuss

211. The maximum likelihood method can be used to explore relationships among more diverse sequences, conditions that are not well handled by maximum parsimony methods.

A. true

B. false

C. -

D. -

A.true

discuss

212. Which Stat

A. k-means clustering is a linear clustering algorithm.

B. k-means clustering aims to partition n observations into k clusters

C. k-nearest neighbor is same as k-means

D. k-means is sensitive to outlier

C.k-nearest neighbor is same as k-means

discuss

213. what is Feature scaling done before applying K-Mean algorithm?

A. in distance calculation it will give the same weights for all features

B. you always get the same clusters. if you use or don't use feature scaling

C. in manhattan distance it is an important step but in euclidian it is not

D. none of these

A. in distance calculation it will give the same weights for all features

discuss

214. With Bayes theorem the probability of hypothesis H specified by $P(H)$ is referred to as

A. a conditional probability

B. an a priori probability

C. a bidirectional probability

D. a posterior probability

B.an a priori probability

discuss

215. The probability that a person owns a sports car given that they subscribe to automotive magazine is 40%. We also know that 3% of the adult population subscribes to automotive magazine. The probability of a person owning a sports car given that they don't subscribe to automotive magazine is 30%. Use this information to compute the probability that a person subscribes to automotive magazine given that they own a sports car

A. 0.0398

B. 0.0389

C. 0.0368

D. 0.0396

D.0.0396

discuss

216. What is the naïve assumption in a Naïve Bayes Classifier.

A. all the classes are independent of each other

B. all the features

C. the most probable

D. all the features

D.all the features of a class are conditionally dependent on each other

discuss

217. Based on survey , it was found that the probability that person like to watch serials is 0.25 and the probability that person like to watch netflix series is 0.43. Also the probability that person like to watch serials and netflix sereis is 0.12. what is the probability that a person doesn't like to watch either?

A. 0.32

B. 0.2

C. 0.44

D. 0.56

A.0.32

discuss

218. What is the actual number of independent parameters which need to be estimated in P dimensional Gaussian distribution model?

A. p

B. 2p

C. $p(p+1)/2$

D. $p(p+3)/2$

D. $p(p+3)/2$

discuss

219. Give the correct Answer for following statements.
1. It is important to perform feature normalization before using the Gaussian kernel.
2. The maximum value of the Gaussian kernel is 1.

A. 1 is true, 2 is false

B. 1 is false, 2 is true

C. 1 is true, 2 is true

D. 1 is false, 2 is false

C.1 is true, 2 is true

discuss

220. Which of the following quantities are minimized directly or indirectly during parameter estimation in Gaussian distribution Model?

A. negative log-likelihood

B. log-likelihood

C. cross entropy

D. residual sum

A.negative log-lik

discuss

221. Consider the following dataset. x,y,z are the features and T is a class(1/0). Classify the test data (0,0,1) as values of x,y,z respectively.

A. 0

B. 1

C. 0.1

D. 0.9

B.1

discuss

222. Given a rule of the form IF X THEN Y, rule confidence is defined as the conditional probability that Select one:



discuss

discuss

discuss

discuss

discuss

discuss

discuss

« Set 8 Set 10 »

<https://mcqmate.com/topic/3/machine-learning-set-9>