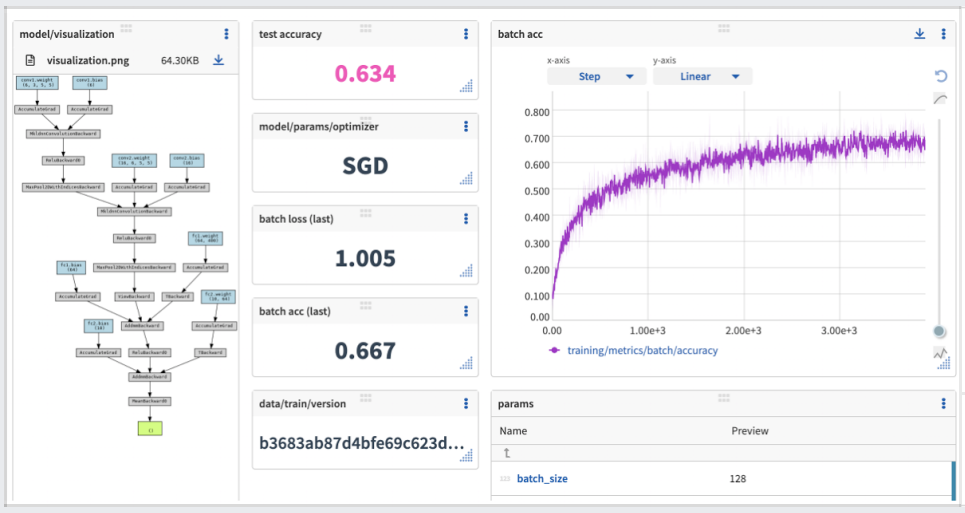

Machine Learning (ML) solved MCQs

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« Set 7 **8** of **31** Set 9 »

176. In Apriori algorithm, if 1 item-sets are 100, then the number of candidate 2 item-sets are

A. 100

B. 200

C. 4950

D. 5000

C.4950 discuss

177. Machine learning techniques differ from statistical techniques in that machine learning methods

A. are better able to deal with missing and noisy data

B. typically assume an underlying distribution for the data

C. have trouble with large-sized datasets

D. are not able to explain their behavior

A.are better able to deal with missing and noisy data discuss

A. 0.0368

B. 0.0396

C. 0.0389

D. 0.0398

B.0.0396 discuss

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

A. zero

B. three

C. singleton

D. two

C.singleton discuss

180. Given a frequent itemset L, If |L| = k, then there are

A. 2k – 1 candidate association rules

B. 2k candidate association rules

C. 2k – 2 candidate association rules

D. 2k -2 candidate association rules

C.2k – 2 candidate association rules discuss

181. Which Statement is not true statement.

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

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

182. which of the following cases will K-Means clustering give poor 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

C.2 and 4 discuss

183. What is Decision Tree?

A. flow-chart

D.none of the above

discuss

184. What are two steps of tree pruning work?

A. pessimistic pruning and optimistic pruning

B. postpruning and prepruning

C. cost complexity pruning and time complexity pruning

D. none of the options

B.postpruning and prepruning

discuss

185. A database has 5 transactions. Of these, 4 transactions include milk and bread. Further, of the given 4 transactions, 2 transactions include cheese. Find the support percentage for the following association rule “if milk and bread are purchased, then cheese is also purchased”.

A. 0.4

B. 0.6

C. 0.8

D. 0.42

D.0.42

discuss

186. Which of the following option is true about k-NN algorithm?

A. it can be used for classification

B. ??it can be used for regression

C. ??it can be used in both classification and regression??

D. not useful in ml algorithm

C.??it can be used in both classification and regression??

discuss

187. How to select best hyperparameters in tree based models?

A. measure performance over training data

B. measure performance over validation data

C. both of these

D. random selection of hyper parameters

B.measure performance over validation data

discuss

188. What is true about K-Mean Clustering?

1. K-means is extremely sensitive to cluster center initializations

2. Bad initialization can lead to Poor convergence speed

3. Bad initialization can lead to bad overall clustering

A. 1 and 3

B. 1 and 2

C. 2 and 3

D. 1, 2 and 3

discuss

D.1, 2 and 3

189. What are tree based classifiers?

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

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

C. both options except none

D. not possible

discuss

C.both options except none

190. What is gini index?

A. gini index??operates on the categorical target variables

B. it is a measure of purity

C. gini index performs only binary split

D. all (1,2 and 3)

discuss

A. if-then.

B. while.

C. do while

D. switch.

discuss

A.if-then.

192. Decision Tree is

A. flow-chart

B. structure in which internal node represents test on an attribute, each branch represents outcome of test and each leaf node represents class label

C. both a & b

D. class of instance

discuss

C.both a & b

193. Which of the following is true about Manhattan distance?

A. it can be used for continuous variables

B. it can be used for categorical variables

C. it can be used for categorical as well as continuous

D. it can be used for constants

discuss

A.it can be used for continuous variables

194. A company has build a kNN classifier that gets 100% accuracy on training data. When they deployed this model on client side it has been found that the model is not at all accurate. Which of the following thing might gone wrong?Note: Model has successfully deployed and no technical issues are found at client side except the model performance

A. it is probably a overfitted model

B. ??it is probably a underfitted model

C. ??can't say

D. wrong client data

discuss

A.it is probably a overfitted model

195. hich of the following classifications would best suit the student performance classification systems?

C. regression analysis

D. cluster analysis

A.if...then... analysis discuss

196. Which statement is true about the K-Means algorithm? Select one:

A. the output attribute must be cateogrical.

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

197. Which of the following can act as possible termination conditions in K-Means?
1. For a fixed number of iterations.
2. Assignment of observations to clusters does not change between iterations. Except for cases with a bad local minimum.
3. Centroids do not change between successive iterations.
4. Terminate when RSS falls below a threshold.

A. 1, 3 and 4

B. 1, 2 and 3

C. 1, 2 and 4

D. 1,2,3,4

D.1,2,3,4 discuss

198. Which of the following statement is true about k-NN algorithm?
1) k-NN performs much better if all of the data have the same scale
2) k-NN works well with a small number of input variables (p), but struggles when the number of inputs is very large
3) k-NN makes no assumptions about the functional form of the problem being solved

A. 1 and 2

B. 1 and 3

C. only 1

D. 1,2 and 3

D.1,2 and 3 discuss

199. 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 nonconvex shapes

A. 1 and 2

B. 2 and 3

C. 1, 2, and 3??

200. How will you counter over-fitting in decision tree?

A. by pruning the longer rules

B. by creating new rules

C. both by pruning the longer rules' and ' by creating new rules'

D. over-fitting is not possible

discuss

A.by pruning the longer rules

« Set 7 Set 9 »

1	2	3	4	5	6	7	8	9	10	11	12	13	14
15	16	17	18	19	20	21	22	23	24	25	26	27	
28	29	30	31										

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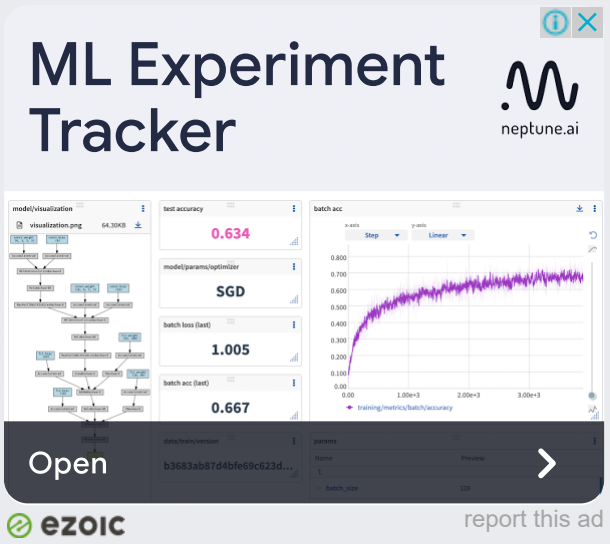

Topic wise solved MCQ's

- Computer Science Engineering (CSE)

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- Software Testing and Quality Assurance (STQA)
- Usability Engineering
- Information systems and engineering economics
- High Performance Computing (HPC)
- Computer Fundamentals
- Data Structure (DS)
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- DataBase Management System (DBMS)
- Software Engineering
- Computer Networks
- Data Structure and Algorithms (DSA)
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