

MACHINE LEARNING-2

Q1 to Q11 have only one correct answer. Choose the correct option to answer your question.

Q-1: A- 2 only

Q-2: D- 1,2 and 4

Q-3: A- True

Q-4: A- 1 Only

Q-5: A- 0

Q-6: B- No

Q-7: A- Yes

Q-8: D- All of the above

Q-9: A- K-mean clustering algorithm

Q-10: A- 1 Only

Q-11: D- All of the above

Q12 to Q14 are subjective answers type questions, Answers them in their own words briefly.

Q-12:

The number of clusters found from data by the method is denoted by the letter 'K' in K-means. In this method, data points are assigned to clusters in such a way that the sum of the squared distances between the data points and the centroid is as small as possible.

The K-means clustering algorithm is sensitive to outliers, because a mean is easily influenced by extreme values. K-medoids clustering is a variant of K-means that is more robust to noises and outliers.

Q-13:

K-means has been around since the 1970s and fares better than other clustering algorithms like density-based, expectation-maximisation. It is one of the most robust methods, especially for image segmentation and image annotation projects. According to some users, K-means is very simple and easy to implement.

K means is relatively simple to implement, scales large data sets, guarantees convergence, easily adapts to new examples, generalizes to clusters of different shapes and sizes, such as elliptical clusters.

Q-14:

This is non-deterministic nature of algorithms such as the K-Means clustering algorithm limits their applicability in areas such as cancer subtype prediction using gene expression data. It is hard to sensibly compare the results of such algorithms with those of other algorithms.

WORKSHEET 2 SQL

Q1 to Q13 have only one correct answer. Choose the correct option to answer your question.

Q-1: D- Unique

Q-2: A- Primary Key

Q-3: C- There can be null values in Primary key

Q-4: B- Null values are not allowed

Q-5: C- Referential key

Q-6: A- 0

Q-7: C- One to one

Q-8: C- One to one

Q-9: D- None of them

Q-10: B- 1

Q-11: C- One to one

Q-12: C- Table

Q-13: A- Insert in to

Q14 and Q15 have one or more correct answer. Choose all the correct option to answer your question.

Q-14: **B, C & D**

Q-15: **A & B**

STATISTICS WORKSHEET-2

Q1 to Q15 have only one correct answer. Choose the correct option to answer your question

- Q-1: D-None
- Q-2: C-12
- Q-3: C- The square root of the variance
- Q-4: C- Both of these (Exhaustive & Mutually exclusive)
- Q-5: B- Summarizing and explaining a specific set of data
- Q-6: B- Data set
- Q-7: A- 2 or more
- Q-8: B- Scatter Plot
- Q-9: D- Analysis of variance
- Q-10: A- Z-score
- Q-11: C- mean
- Q-12: D- 400005.2
- Q-13: D- Mean
- Q-14: A- Descriptive and inferences
- Q-15: D- H-L