

Q41) Among the following identify the one in which dimensionality reduction reduces.

- a) Performance
- b) statistics
- c) Entropy
- d) Collinearity

Answer - D) Dimensionality reduction reduces collinearity.

Q42) Which of the following machine learning algorithm is based upon the idea of bagging?

- a) Decision Tree
- b) Random Forest
- c) Classification
- d) SVM

Answer - B) Random Forest is based on the idea of bagging.

Q43) Choose a disadvantage of decision trees among the following.

- e) Decision tree robust to outliers
- f) Factor analysis
- g) Decision Tree are prone to overfit
- h) all of the above

Answer - C) Decision trees are prone to overfitting.

Q44) What is the term known as on which the machine learning algorithms build a model based on sample data?

- i) Data Training
- j) Sample Data
- k) Training data
- l) None of the above

Answer - C) Training data

Machine learning algorithms build a model based on sample data, known as **“training data,”** in order to make predictions or decisions without being explicitly

Q45) Which of the following machine learning techniques helps in detecting the outliers in data?

- m) Clustering
- n) Classification
- o) Anomaly detection
- p) All of the above

Answer - C) Anomaly detection

- **Anomaly detection** systems are either manually built by experts setting thresholds on data or constructed automatically by learning from the available data through **machine learning** which finds the **outliers of a dataset** that doesn't belong
- It helps in monitoring the cause of chaos engineering by **detecting outliers**, and informing the responsible parties to act
- Therefore, the right option is **anomaly detection**

Q46) Identify the incorrect numerical functions in the various function representation of machine learning.

- q) Support Vector
- r) Regression
- s) Case based
- t) Classification

Answer- C) Case-based is not numerical functions in the various function representation of machine learning.

Q47) Analysis of ML algorithm needs

- u) Statistical learning theory
- v) Computational learning theory
- w) None of the above
- x) Both a and b

Answer – d) Analysis of ML algorithms needs both statistical learning theory and computational learning theory.

Q48) Identify the difficulties with the k-nearest neighbor algorithm.

- y) Curse of dimensionality
- z) Calculate the distance of test case for all training cases
- aa) Both a and b
- bb) None

Answer: c) both the curse of dimensionality and the calculation of distances pose difficulties in implementing the k-nearest neighbor algorithm.

Q49) The total types of the layer in radial basis function neural networks are __

- a) 1
- b) 2
- c) 3
- d) 4

Answer: c) The total number of layers in a radial basis function (RBF) neural network is 3.

Q50) Which of the following is not a supervised learning

- a) PCA
- b) Naïve bayes
- c) Linear regression
- d) KMeans

Answer - a) PCA Is not supervised learning.