

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

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

**Ans: d) Collinearity**

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

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

**Ans: b) Random Forest**

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

- a) Decision tree robust to outliers
- b) Factor analysis
- c) Decision Tree are prone to overfit
- d) all of the above

**Ans: c) Decision Tree are prone to overfit**

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

- e) Data Training
- f) Sample Data
- g) Training data
- h) None of the above

**Ans: g) Training data**

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

- i) Clustering
- j) Classification
- k) Anomaly detection
- l) All of the above

**Ans: k) Anomaly detection**

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

- m) Support Vector
- n) Regression
- o) Case based
- p) Classification

**Ans: o) Case Based**

47) Analysis of ML algorithm needs

- q) Statistical learning theory
- r) Computational learning theory
- s) None of the above
- t) Both a and b

**Ans : t) Both a and b**

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

- u) Curse of dimensionality
- v) Calculate the distance of test case for all training cases
- w) Both a and b
- x) None

**Ans : w) Both a and b**

49) The total types of the layer in radial basis function neural networks is \_\_\_\_\_

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

**Ans : c) 3**

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Which of the following is not a supervised learning

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

**Ans : a) PCA**