

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?

- a) Data Training
- b) Sample Data
- c) Training data
- d) None of the above

**Ans. c) Training Data**

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

- a) Clustering
- b) Classification
- c) Anamoly detection
- d) All of the above

**Ans. c) Anamoly detection**

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

- a) Support Vector
- b) Regression
- c) Case based
- d) Classification

**Ans. c) Case based**

- 47) Analysis of ML algorithm needs
- a) Statistical learning theory
  - b) Computational learning theory
  - c) None of the above
  - d) Both a and b

**Ans. d) Both a and b**

- 48) Identify the difficulties with the k-nearest neighbor algorithm.
- a) Curse of dimensionality
  - b) Calculate the distance of test case for all training cases
  - c) Both a and b
  - d) None

**Ans. c) 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**

- 50) Which of the following is not a supervised learning
- a) PCA
  - b) Naïve bayes
  - c) Linear regression
  - d) KMeans

**Ans. a) PCA**