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

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

**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

**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

**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

**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

**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

**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

**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

**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

**c) 3**

50) Which of the following is not a supervised learning

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

**a) PCA**