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

1. Performance
2. statistics
3. Entropy
4. Collinearity

Answer: d) Collinearity

1. Which of the following machine learning algorithm is based upon the idea of bagging?
   1. Decision Tree
   2. Random Forest
   3. Classfication
   4. SVM

Answer: b) Random Forest

1. Choose a disadvantage of decision trees among the following.
   1. Decision tree robust to outliers
   2. Factor analysis
   3. Decision Tree are prone to overfit
   4. all of the above

Answer: c) Decision Tree are prone to overfit

1. What is the term known as on which the machine learning algorithms build a model based on sample data?
   1. Data Training
   2. Sample Data
   3. Training data
   4. None of the above

Answer: c) Training Data

1. Which of the following machine learning techniques helps in detecting the outliers in data?
   1. Clustering
   2. Classification
   3. Anamoly detection
   4. All of the above

Answer: c) Anamoly Detection

1. Identify the incorrect numerical functions in the various function representation of machine learning.
   1. Support Vector
   2. Regression
   3. Case based
   4. Classification

Answer: c) Case Based

1. Analysis of ML algorithm needs
   1. Statistical learning theory
   2. Computational learning theory
   3. None of the above
   4. Both a and b

Answer: d) Both a and b

1. Identify the difficulties with the k-nearest neighbor algorithm.
   1. Curse of dimensionality
   2. Calculate the distance of test case for all training cases
   3. Both a and b
   4. None

Answer: c) Both a and b

1. The total types of the layer in radial basis function neural networks is

a) 1

b) 2

c) 3

d) 4

Answer: c) 3

1. Which of the following is not a supervised learning
2. PCA
3. Naïve bayes
4. Linear regression
5. KMeans

Answer: a) PCA