ASSIGNMENT – 3

MACHINE LEARNING

**Q1 to Q12 have only one correct answer. Choose the correct option to answer your question**

Q1. Ans d

Q2. Ans d

Q3. Ans. C

Q4.Ans. b

Q5.Ans . d

Q6. Ans c

Q7.Ans d

Q8 Ans a

Q9 Ans a

Q10.Ans b

Q11. Ans a

Q12. Ans b

13. What is the importance of clustering?

Ans. Importance of clustering:

1. It is basically a unsupervised learning algorithm model .
2. Its basically form a groups in which the features of the member of each group or cluster are more or less same.
3. It determines the intrinsic grouping among the unlabelled data present.
4. It is used to find structure in unlabelled data.

14. How can I improve my clustering performance?

Ans.

A)Clustering performance can be improved by defining the boundary of the cluster properly as well defined boundary improves the performance of clustering.

b) First of all the more the data the better the results. Also this goes without saying that garbage in garbage out, so clean the data as much as possible before using it for analysis. Using of an appropriate clustering algorithm is also very important during cluster analysis. Choosing the optimal number of clusters is also a very important step during clustering. We should choose the algorithms for finding the optimal number of cluster very carefully. Such as elbow method, gap stats method, silhouette method, etc.). Reducing dimensions could be one of the optimization method