MACHINE LEARNING ASSIGNMENT- 3

1) OPTION (D)
2) OPTION (D)
3) OPTION (C)
4) OPTION (B)
5) OPTION (D)
6) OPTION (C)
7) OPTION (D)
8) OPTION (A)
9) OPTION (A)
10) OPTION (B)
11) OPTION (A)
12) OPTION (B)

13. What is the importance of clustering?

We use clustering in machine learning to extract valuable inferences from many unstructured data sets. If we are working with large amounts of data that are also not structured, it is only logical to organize that data to make it helpful in so many other ways, and clustering helps us do that.

Clustering and classification allow us to take a sweeping glance at our data. And then form some logical structures based on our findings there before going deeper into the analysis.

It is a significant component of machine learning in providing better machine learning techniques.

14. How can I improve my clustering performance?

There are several methods for improving performance of the clustering algorithm. Principal Component Analysis is an important approach to unsupervised dimensionality reduction technique. Also, Initialization using simple furthest point heuristic (Max min) reduces the clustering error for a significant percentage.