MACHINE LEARNING WORDSHEET-3

Answer sheet

1. D
2. D
3. C
4. B
5. D
6. C
7. D
8. A
9. A
10. B
11. A
12. B
13. Clustering is important as, as a data scientist you will not get labelled data in your datasets. Most of the problems are not segregated into classes. Clustering helps to find out the patterns in the data without taking any particular variable in considerations. This is could very well help us to find the relations between the features of the data. After clustering we could treat the records based on its group. We can also find similarly patterns in the records which could be uses for recommendation system applications.
14. Improving the clustering performing rather a subject and domain specific tasks. But there are some steps that we could perform to ensure betterment of the performance. 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 .