

MACHINE LEARNING

ASSIGNMENT – 3

Q1. D)

Q2. D)

Q3. C)

Q4. B)

Q5. D)

Q6. C)

Q7. D)

Q8. A)

Q9. A)

Q10. B)

Q11. A)

Q12. B)

Q13. Clustering is important in data analysis and data mining applications. It is the task of grouping a set of objects so that objects in the same group are more similar to each other than to those in other groups (clusters). Machine learning systems can then use cluster IDs to simplify the processing of large datasets. Thus, clustering's output serves as feature data for downstream ML systems.

Q14. Graph-based clustering performance can easily be improved by applying ICA blind source separation during the graph Laplacian embedding step. Applying unsupervised feature learning to input data using either RICA or SFT, improves clustering performance.