Machine Learning

1. D
2. D
3. C
4. B
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13. A
14. **Importance of Clustering Methods**
    * Having clustering methods helps in restarting the local search procedure and remove the inefficiency. In addition, clustering helps to determine the internal structure of the data.
    * This clustering analysis has been used for model analysis, vector region of attraction.
    * Clustering helps in understanding the natural grouping in a dataset. Their purpose is to make sense to partition the data into some group of logical groupings.
    * Clustering quality depends on the methods and the identification of hidden patterns.
    * They play a wide role in applications like marketing economic research and weblogs to identify similarity measures, Image processing, and spatial research.
    * They are used in outlier detections to detect credit card fraudulence.
15. How can I improve clustering performance?

* 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.