DATA SCIENCE ASSIGNMENT

Day - 38:

1. Which clustering algorithm does not require specifying the number of clusters beforehand and can adapt to varying cluster shapes and sizes?
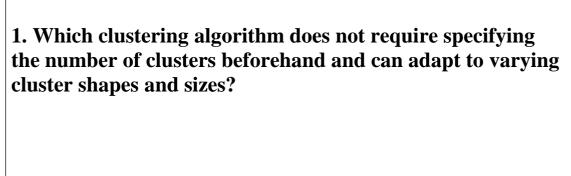
2.Which clustering algorithm is particularly effective in identifying clusters with varying shapes and densities and does not require specifying the number of clusters?

3.What is a key characteristic of Gaussian Mixture Models (GMM) in clustering?

4. How does LDA handle the trade-off between maximizing class separability and minimizing variance within classes?

5. Can Autoencoders be used for anomaly detection? If yes, How?