MACHINE LEARNING-Assignment-7

1. A
2. B,C
3. A
4. B
5. A
6. A
7. B
8. B
9. The advantages of Random Forest are that it prevents over fitting and is more accurate in predictions. Handles Unbalanced Data.
10. Scaling is required to rescale the data and it's used when we want features to be compared on the same scale for our algorithm. And, when all features are in the same scale, it also helps algorithms to understand the relative relationship better. Two types of scaling are Rating Scales and Attitude Scales.
11. We can use fixed learning rate during training without worrying about learning rate decay. It has straight trajectory towards the minimum and it is guaranteed to converge in theory to the global minimum if the loss function is convex and to a local minimum if the loss function is not convex.
12. Accuracy is not a good metric for imbalanced datasets. The machine learning algorithms favour the larger class and sometimes even ignore the smaller class if the data is highly imbalanced.
13. F-score is a measure of a model's accuracy on a dataset. Formula 2 x [(Precision x Recall) / (Precision + Recall)].
14. The fit () method helps in fitting the data into a model, transform () method helps in transforming the data into a form that is more suitable for the model.