

WORKSHEET – 2

MACHINE LEARNING 2 ANSWERSHEET

1. (a) CLUSTERING
2. (d) REGRESSION, CLASSIFICATION and REINFORCEMENT
3. (a) TRUE
4. (a) CAPPING AND FLOORING OF VARIABLES
5. (b) 1
6. (b) NO
7. (a) YES
8. (d) ALL OF THE ABOVE
9. (a) K-MEANS CLUSTERING ALGORITHM
10. (d) ALL OF THE ABOVE
11. (d) ALL OF THE ABOVE
12. The K-means clustering algorithm is sensitive to outliers, because a MEAN is easily influenced by extreme values.
13. K-means clustering is better because it easily adapts to new examples and generalizes to clusters of different shapes and sizes. K-Means can be used to confirm business assumptions about what types of groups exist or to identify unknown groups in complex data sets.

14. **K-Mean algorithm is Non-deterministic Algorithm. Its because each run of the algorithm for the same dataset may give different output each time.**