

## MACHINE LEARNING

1. d) Collinearity.
2. b) Random Forest.
3. c) Decision Tree are prone to overfit.
4. c) Training data.
5. c) Anamoly detection.
6. c) Case based.
7. d) Both a and b (Statistical and computational learning theory).
8. c) Both a and b (Curse of dimensionality and Calculate the distance of test case for all training cases).
9. c) 3.
10. a) PCA.
11. c) Neither feature nor number of groups are known.
12. b) SVG.
13. b) Underfitting.
14. a) Reinforcement learning.
15. b) Mean squared error.
16. c) Nonlinear, Binary.
17. a) Supervised learning.
18. c) Both a and b (Euclidian and Manhattan distance).
19. a) Removing column which have too many missing values.
20. c) Input attribute.
21. a) SVM allows very low error in classification.
22. b) Only 2 (Depth of tree).

- 23. a)  $-(6/10 \log(6/10) + 4/10 \log(4/10))$ .
- 24. a) Weights are regularized with the l1 norm.
- 25. b) Logistic regression and Gaussian discriminant analysis.
- 26. d) Either 2 or 3.
- 27. b) Increase by 5 pound.
- 28. d) Minimize the squared distance from the points.
- 29. c) As the value of one attribute decreases the value of the second attribute increases.
- 30. b) Convolutional Neural Network.