

1. What are Support Vector Machines (SVMs)?
2. What are Support Vectors in SVMs?
3. What is the basic principle of a Support Vector Machine?
4. What are hard margin and soft Margin SVMs?
5. What do you mean by Hinge loss?
6. What is the “Kernel trick”?
7. Explain different types of kernel functions.
8. What affects the decision boundary in SVM?
9. What is a slack variable?
10. Explain Bias Vs Variance tradeoff
11. What is L1 regularization?
12. What is L2 regularization?
13. What is regularization? Why is it required?
14. What to do in error analysis?
15. Explain Precision-Recall Tradeoff
16. What is ensembling in ML? What are various types of ensembling methods?
17. What is the Confusion Matrix?
18. What is clustering?
19. Explain K-Means Clustering?
20. Explain the relationship between EigenVectors & PCA
21. What is PCA: lossless or Lossy compression technique?. Explain.
22. What is the relationship between Matrix & its eigen vectors & Eigen values?