

ASSIGNMENT-9

MACHINE LEARNING

1. Which of the following are disadvantages of using Hard Margin SVM classifier?

Answer-D) None of the above.

2. Which of the following statements are true regarding maximal margin classifier?

Answer-C) Any possible classifier which can linearly separate the data of two classes is called maximal margin classifier.

3. Which of the following statements are true regarding soft margin SVM classifier?

Answer-A) They are less sensitive to outliers and can be used even in their presence.

4. Which of the following statements are true regarding SVMs?

Answer-A) They take the data from lower dimensional space to some higher dimensional space in case the data is not likely to be linearly separable.

5. Which of the following Statements are true regarding the Kernel functions used in SVM?

Answer-C) The data product values given by the kernel functions are used to find the classifier in the higher dimensional space.

6. How can SVM be classified?

Answer-B) It is a model trained using unsupervised learning. It can be used for classification but not for Regression

7. The quality of an SVM model depends upon:

Answer-A) Selection of Kernel

8. The SVM's are less effective when:

Answer-A) The data is linearly separable.

9. What would happen when you use very small C ($C \sim 0$)?

Answer-A) Misclassification would happen.

10. What do you mean by generalization error in terms of the SVM?

Answer-C) The threshold amount of error in an SVM.