

Worksheet 2 Machine Learning
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1. Which of the following are disadvantages of using Hard Margin SVM classifier?
C) They are not optimal to use in case of outliers.
2. Which of the following statements are true regarding maximal margin classifier?
D) All of the above.
3. Which of the following statements are true regarding soft margin SVM classifier?
C) They allow some degree of errors or misclassification.
4. Which of the following statements are true regarding SVMs?
D) All of the above.
5. Which of the following Statements are true regarding the Kernel functions used in SVM?
A) These functions gives value of the dot product of pairs of data-points in the desired higher. dimensional space without even explicitly converting the whole data in to higher dimensional space.
6. How can SVM be classified?
C) It is a model trained using supervised learning. It can be used for classification and regression.
7. The quality of an SVM model depends upon:
D) All of the above
8. The SVM's are less effective when:
C) The data is noisy and contains overlapping points.
9. What would happen when you use very small C ($C \sim 0$)?
A) Misclassification would happen
10. What do you mean by generalization error in terms of the SVM?
B) How accurately the SVM can predict outcomes for unseen data.