

Quiz Friday(SLOT-1)

(0) The effectiveness of an SVM depends upon:

- a) Selection of Kernel
- b) Kernel Parameters
- c) Soft Margin Parameter C
- d) depends on the dataset
- e) none of the above

ANS:a,b,c,d

(1)Minimum number of support vectors required to train an SVM:

- a)All data points
- b)3
- c)Depends on dataset
- d)2

ANS: (d)

Minimum of 2 points to find a margin. May not be the optimal separation.

(2)In a random sampling from Normal population $N(\mu, \sigma^2)$, the likelihood estimators of mean and variance are

- a)Variance is biased
- b)Mean is unbiased
- c)Both a) and b) are correct
- d)mean is biased
- e)variance is unbiased

ANS:(a),(b),(c)

(3)Logistic regression cannot be kernelized.

- a)True
- b)False

ANS:(b)False. It can be kernelized

(4) The output of the sigmoid activation function

- a) Bounded by 0,1
- b) Bounded by -1,1
- c) Can be used for classification
- d) None of the above

ANS:(a),(b),(c)