

# Support Vector Machines - FMML 2021 Quiz

Module 4, Lab 4 Quiz

Points: **8/10**

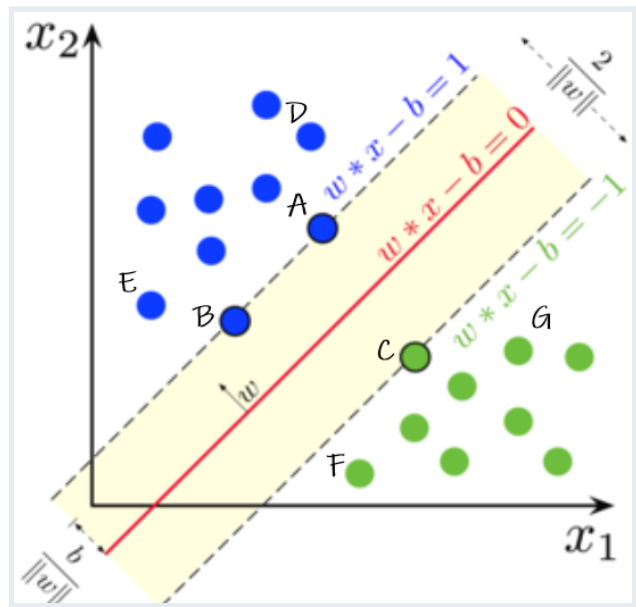
1

What among the below are legitimate shortcomings of SVMs? \*  
(2 Points)

- ☒ SVM algorithm is not suitable for large data sets. ✓
- ☐ SVM is not effective in high dimensional spaces.
- ☒ As the support vector classifier works by putting data points, above and below the classifying hyperplane there is no probabilistic explanation for the classification. ✓
- ☒ SVM doesn't perform well when there is a lot of noise in the dataset. ✓

2

Which among these would be the support vectors for the classifier? (Choose all that apply) \*  
(2 Points)


☒ A ✓

☒ B ✓

☒ C ✓

☐ D

☐ E

☐ G

3

SVMs optimize for maximum distance along: \*

(2 Points)

☒ Perpendicular line from support vectors and the decision boundary ✓

☐ Along the y-axis

☐ Along the x-axis

4

The perpendicular distance of all the support vectors from the decision boundary maximum margin classifier is: \*

(2 Points)

- ☒ Identical ✓
- ☐ Can be slightly different
- ☐ Can be wildly different
- ☐ Can't comment

5

The Kernel-trick: \*

(2 Points)

- ☐ projects the input points to a higher dimension ✓
- ☒ projects the input points to a lower dimension
- ☐ doesn't do any projection
- ☐ None of the above

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