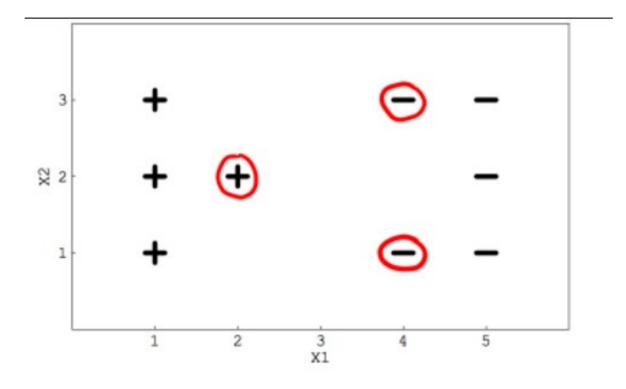
Quiz- 04 (SVM)
saeem03@gmail.com Switch account
② Draft saved
* Required
Email *
Your email
Your name and roll number *
Your answer
is used to learn a linear classifier to classify a non-linear * 1 point dataset
A) class variable
B) dependent features
C) kernel trick
O D) none of these

If I am using all features of my dataset and I achieve 100% accuracy on my training set, but ~70% on validation set, what should I look out for?	* 1 point
A) Underfitting	
B) Nothing, the model is perfect	
C) Overfitting	
The SVM's are less effective when: *	1 point
A) The data is linearly separable	
B) The data is clean and ready to use	
C) The data is noisy and contains overlapping points	

If you remove the non-red circled points from the data, * 1 point the decision boundary will change?



- True
- False

What are support vectors? *

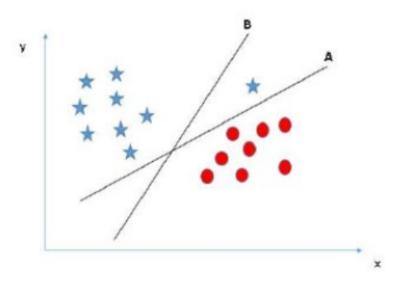
1 point

- These are the datapoints which help the SVM to generate optimal hyperplane.
- O It is an intermediate vector generated during calculation of optimal hyperplane
- In SVM all the data points are called support vectors.
- This are predefined vectors used in calculating hyperplane

support vector machines is	1 point
A) classification learning	
B) Unsupervised Machine Learning	
C) Supervised Machine Learning	
O D) reinforcement learning	
In SVM, if the number of input features is 2, then the hyperplane is a	* 1 point
(A) line	
(B) circle	
(C) plane	
(D) None of these	
SVM, which best segregates classes into how many classes? *	1 point
a. One	
O b. Two	
C. Three	
O d. Four	

As the number of training examples goes to infinity, your model trained on that data will have:	* 1 point
a) Lower variance	
b) Higher variance	
C) Same variance	
d) None of the above	
Linear separator, <u>Hyper plane</u> *	1 point
\bigcirc a. $f(x)=sign(w/x+b)$	
\bigcirc c. f(x)=sign(w.x+b)	
d. f(x)=sign(w-x+b)	

Which hyperplane better segregates the two classes using SVM? * 1 point



- Hyperplane A
- Hyperplane B

Which of the following is/are true regarding an SVM? * 1 point

- a) For two dimensional data points, the separating hyperplane learnt by a linear SVM will be a straight line.
- b) In theory, a Gaussian kernel SVM cannot model any complex separating hyperplane.
- c) For every kernel function used in a SVM, one can obtain an equivalent closed form basis expansion.
- d) Overfitting in an SVM is not a function of number of support vectors.

SVM is termed as classifier *	1 point
Minimum margin	
Maximum margin	
What is the purpose of the Kernel Trick? *	1 point
To transform the problem from nonlinear to linear	
To transform the problem from regression to classification	
To transform the data from nonlinearly separable to linearly separab	le
To transform the problem from supervised to unsupervised learning	
Why SVM's are more accurate than logistic regression? *	1 point
SVM gives more weightage to wrongly classified data points.	
SVM gives more weightages to data points which are correctively classified .	
SVM uses all the data points assuming a probabilistic model.	
SVM uses concept of large margin seperator and for non linearity it kernel functions	uses

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