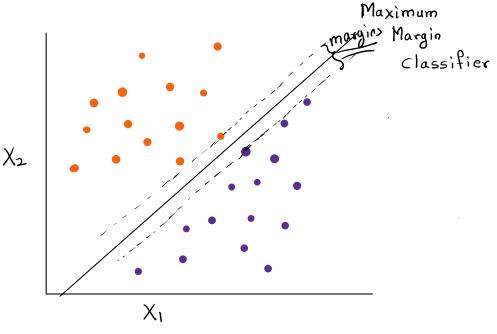
X₁ X₂ y

1 orange = 1

1 Blue = 0

0

0



(Lagrange's multiplies)

Linear SVM classifier

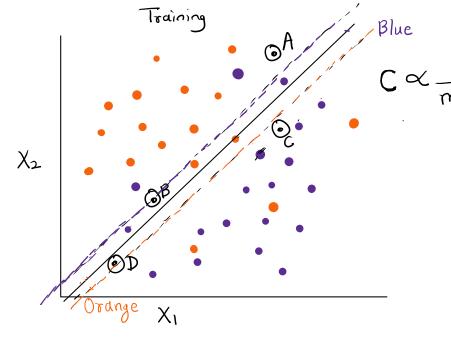
Testing

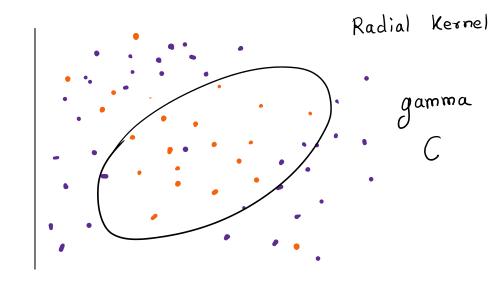
① A

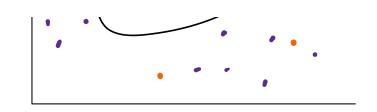
OB Blue

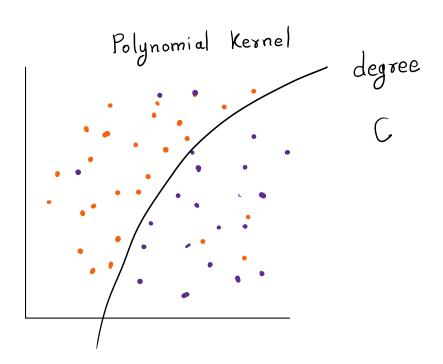
⊙ c

OD Orange

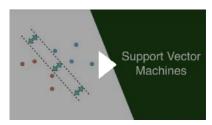


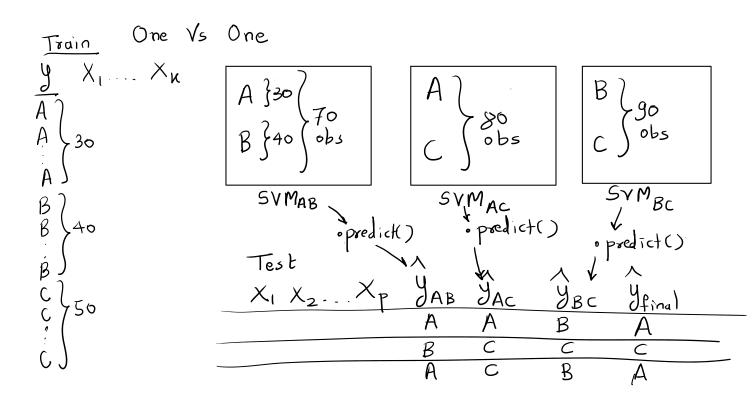






Support Vector Machines (SVMs): A friendly introduction





. OVR: One Vs Rest of all

Train X _K	
A $A $ $A $ A	y A;30 non-A;90
B } 40	
β) C) 50 !	SVMA Test
$\frac{1}{C}$	Test X, X2Xp

y A : 30	$\frac{y}{B}$; 40 -B; 80		y C;50 non-C;70	
10n-A;90	non-	-B;80		non-C;70	
SVMA		SVMB	J	SVMC	
SVMA SVMB SVMC predict_proba()					
Test X, X2Xp	P(A)	P(B)	P(c)	y-pred	
	8-0	0.75	0.5	A	