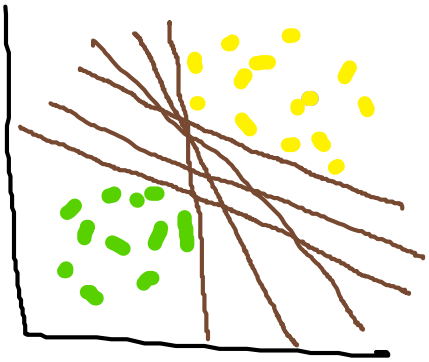
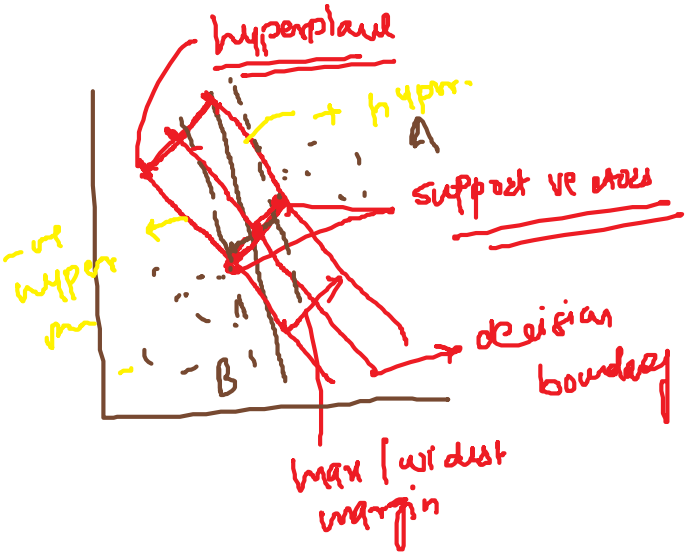
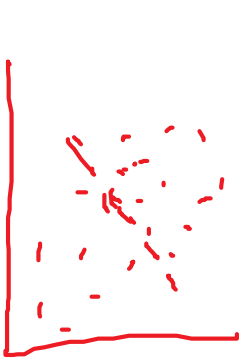
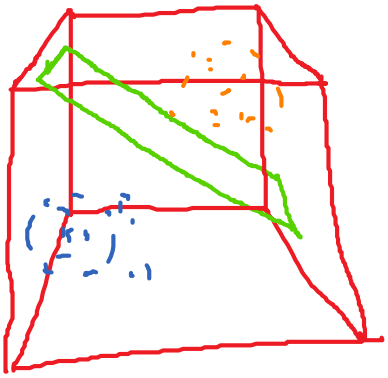
SVM

14 April 2022 09:02





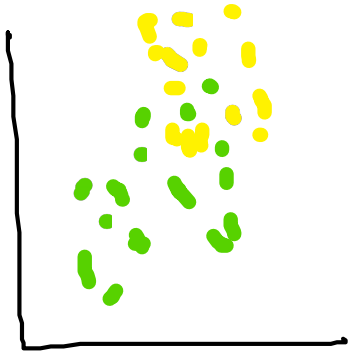




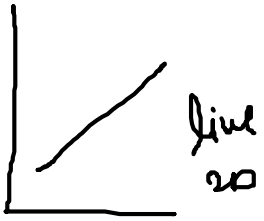
widest margin possible

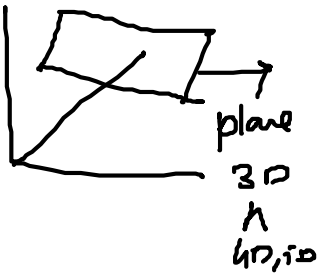
y = ho R=60

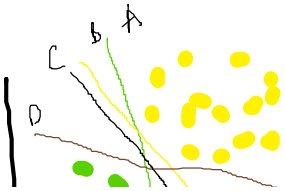
hyperplan | decision boundary



hyperplane

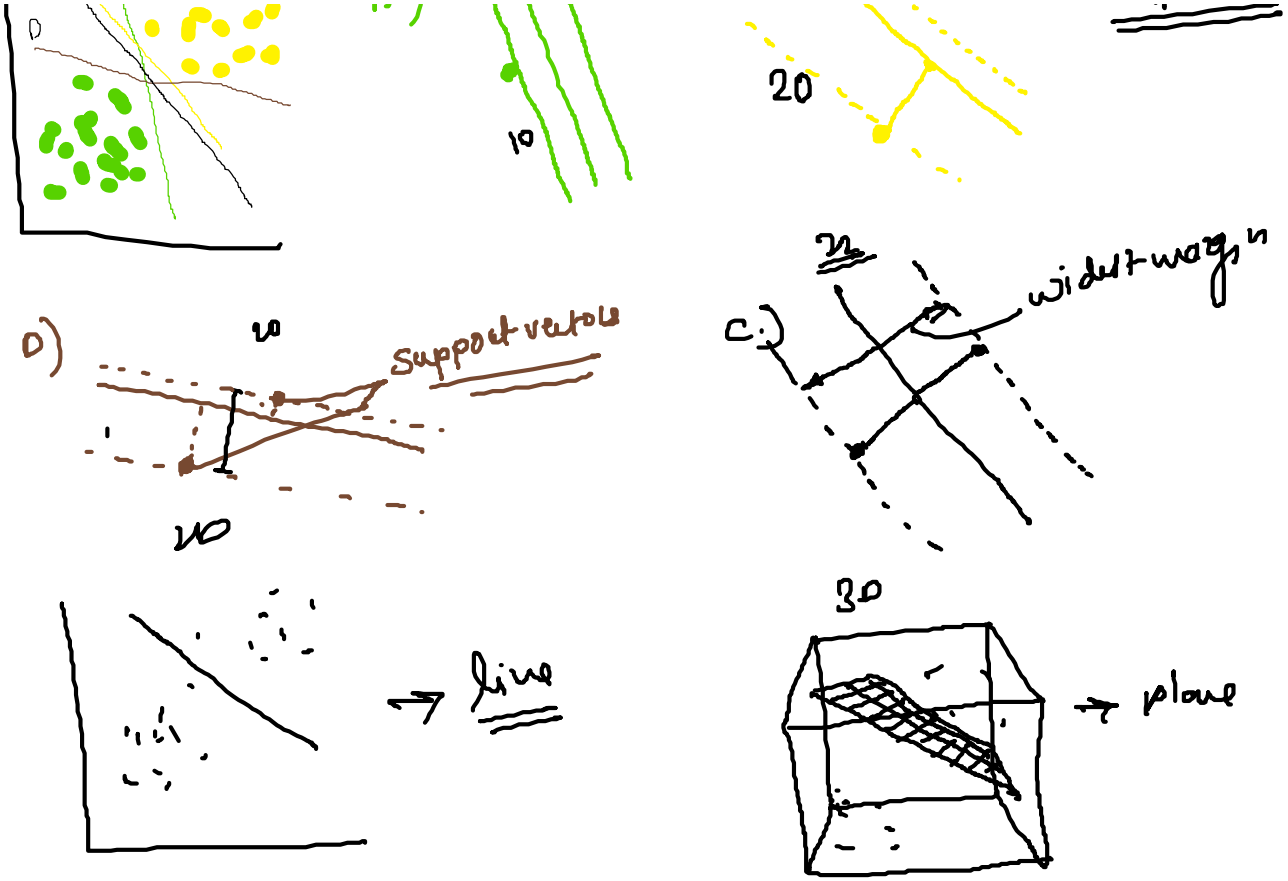






A) margin

Hyperplane

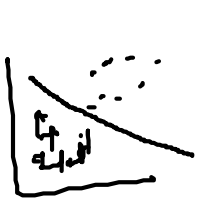


kernal trick (fn):

C = Regularize → tries to control error

hi

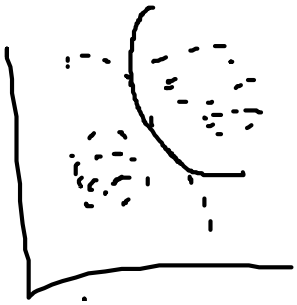
C = 0.001
= 1
= low

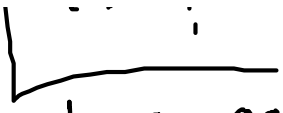


Gamma:- RBF

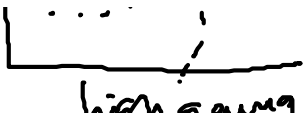
how much curvature we want in decision boundary

Gamma high :- more curvature
low :- low curvature





low gamma

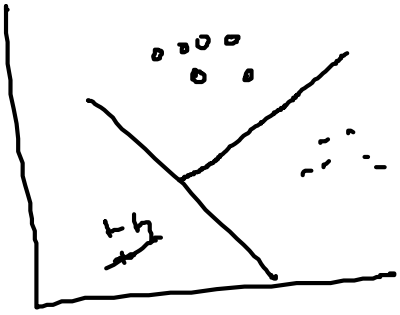


high gamma

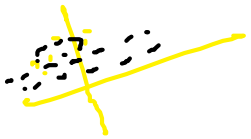
C & γ = 0.01, 0.1, 1, 2, 3.

Multiclass

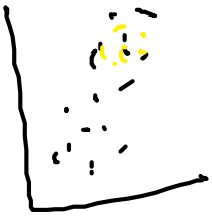
1) OVR → One vs Rest
2) OVO → One vs One



OVR



OVO



Default = OVR

hi