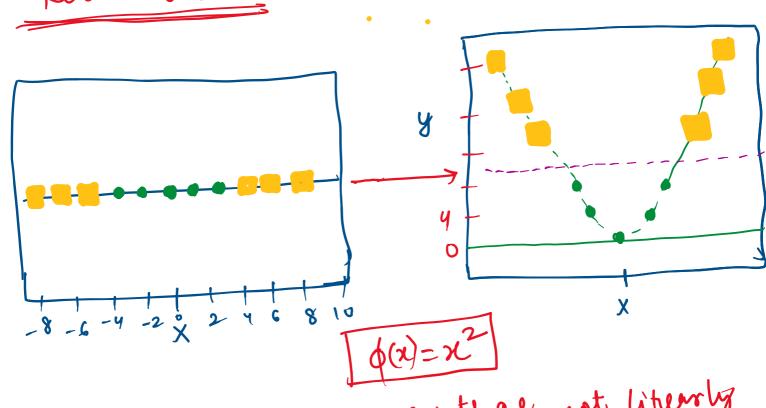
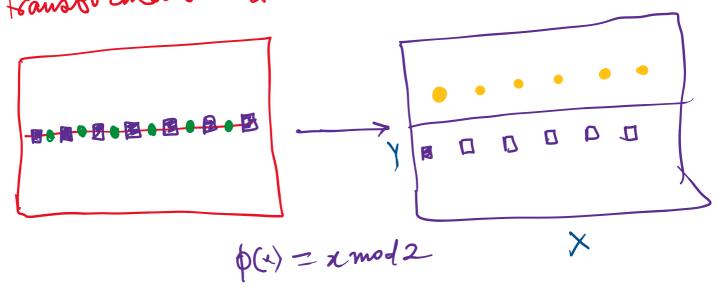


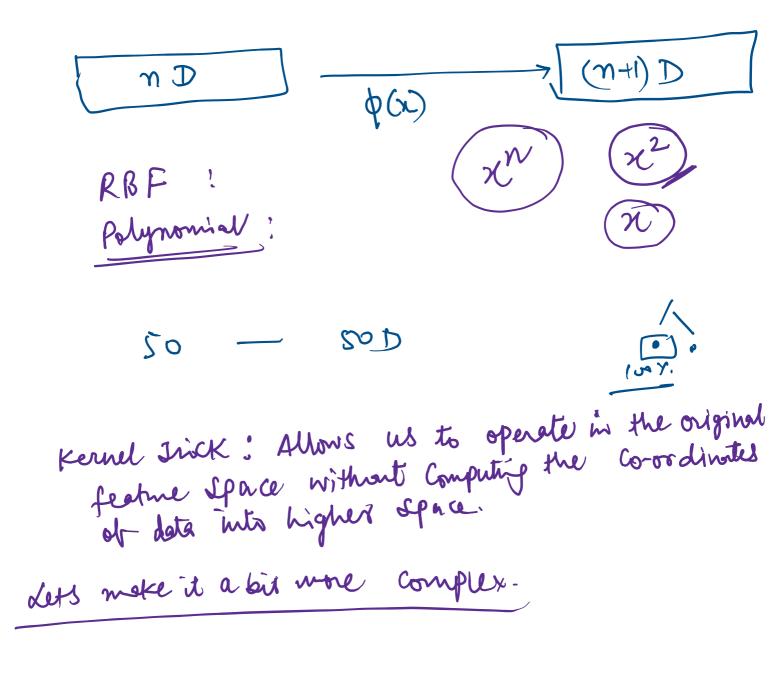
A&C >> Suffort vectors Decision boundary./hyperplane.

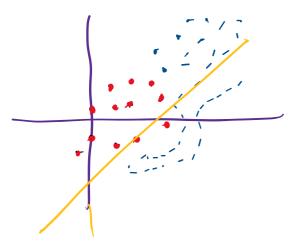
Kurnel Jrick.



As we com see that the points are not literally deparable in LD, but After applying the separated. Houstornation it became dinearly deparated.







Some tolerance for outliers.

Ch don legulanisation

tolerance = 0 Perfect Partitions C1 High Regularization (C) Regularization Panameter! - C1 model will choose a small mayon Clamfied dage margin

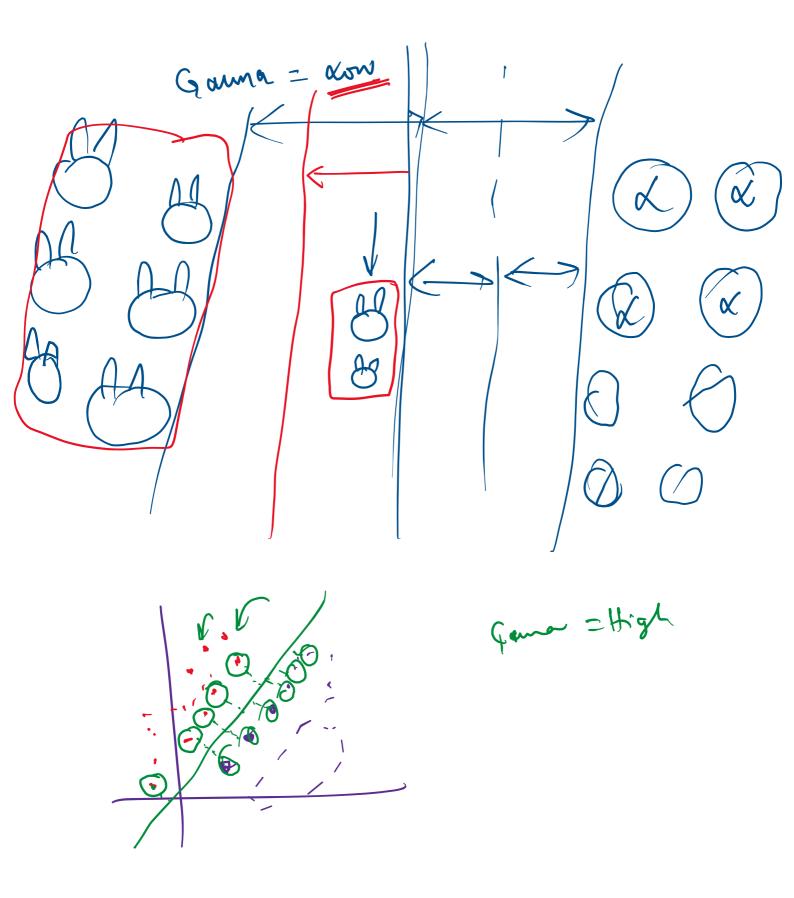
2 Gamma

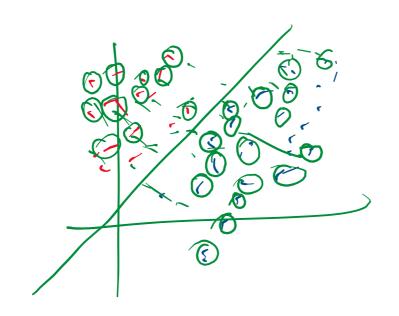
Low gamme mems 'fer'

High gamme

meas "only numbers

pro-15





word

- (1) hyperplane
- 2) support vector
- 3 Kernel Inick
-) fegularizetin Paranetis (C)
-) gamma

Mathematics (Egn of hyporpley () In 2D (Ein of hyperplane) $\beta_0 + \beta_1 x_1 + \beta_2 x_2 = 0$

(2) $I \sim 3D$ $\beta_0 + \beta_1 \times_1 + \beta_2 \times_2 + \beta_3 \times_3 = 0$ $\beta_0 + \beta_1 \times_1 + --- + \beta_1 \times_n = 0$ $\beta_0 + \beta_1 \times_1 + --- + \beta_1 \times_n > 0$ ($\beta_0 + \beta_1 \times_1 + --- + \beta_1 \times_n < 0$)

($\beta_0 + \beta_1 \times_2 + --- + \beta_1 \times_n < 0$)

