Support Vector Machine

SVR
(Support vector
Regressor)
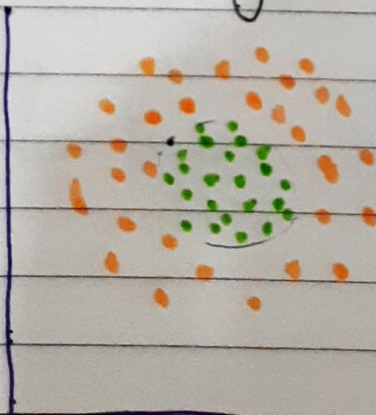
SVC
(Support Vector
Classification)
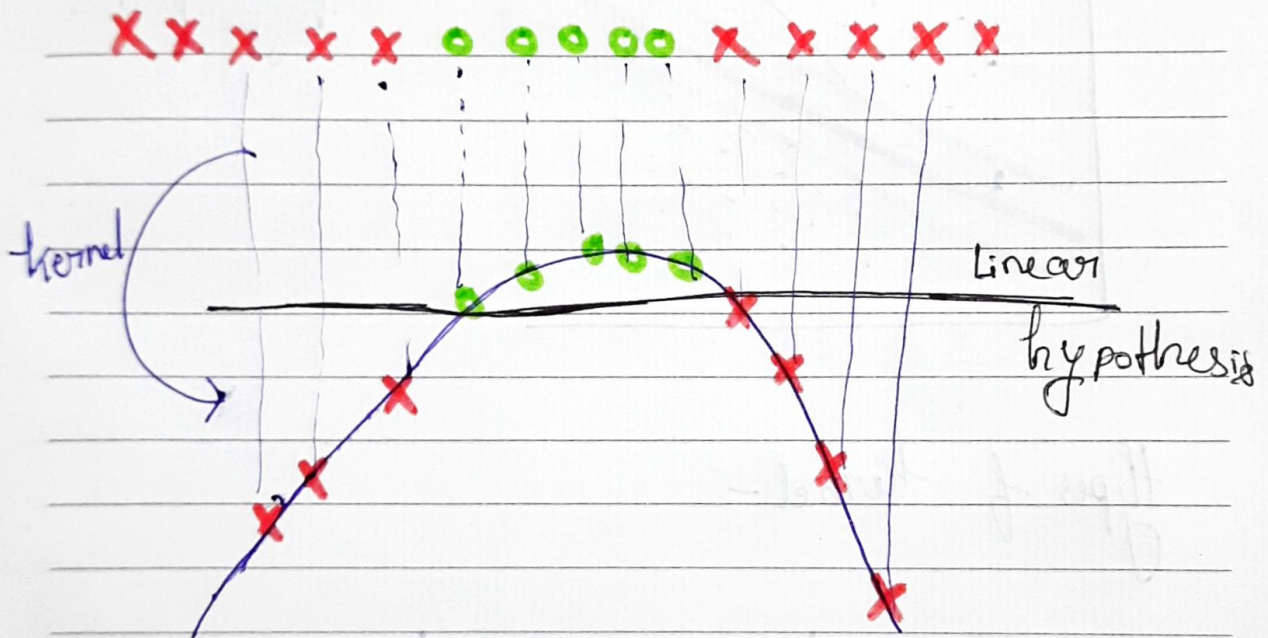
Linearly Separable Data -

linear hypothesis

Non Linearly Separable Data -

Convert non-linearly separable data into linearly separable data - using Kernel

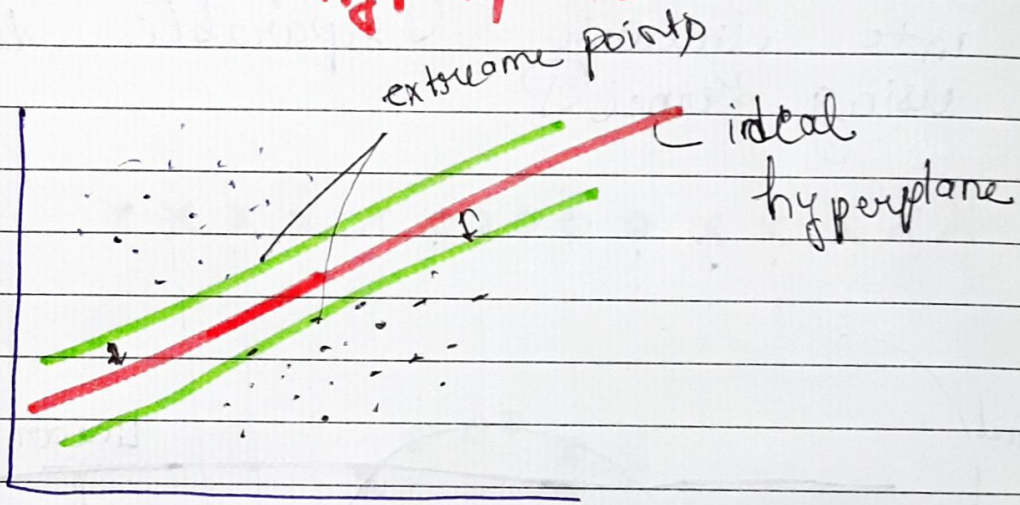Kernel — increase the dimensionality of the data
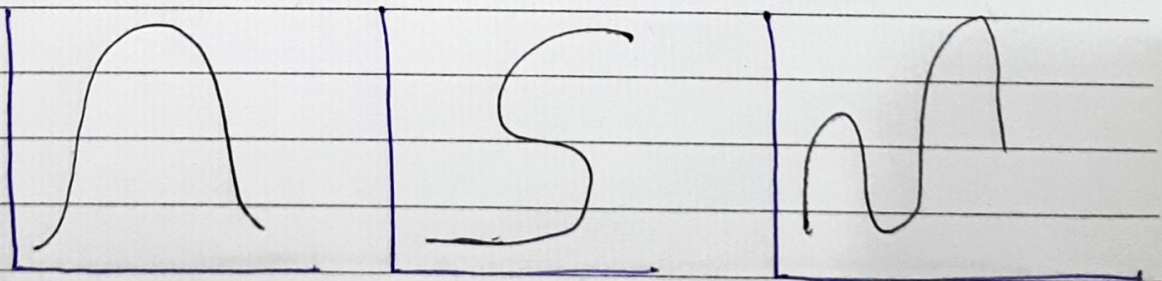
Exa-
$$1D \rightarrow 2 \cdot D$$
$$2 \cdot D \rightarrow 3 \cdot D$$

\# Adds dimensionality to make data linearly separable using kernels.

then use **hyperplane**

extreame points

⊂ ideal hyperplane

Types of kernel —

Guassian   Sigmoid   Polynomial