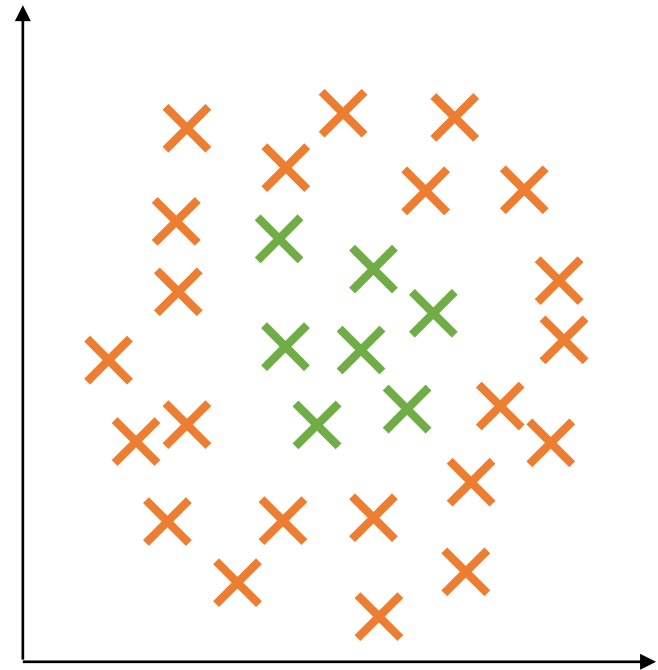
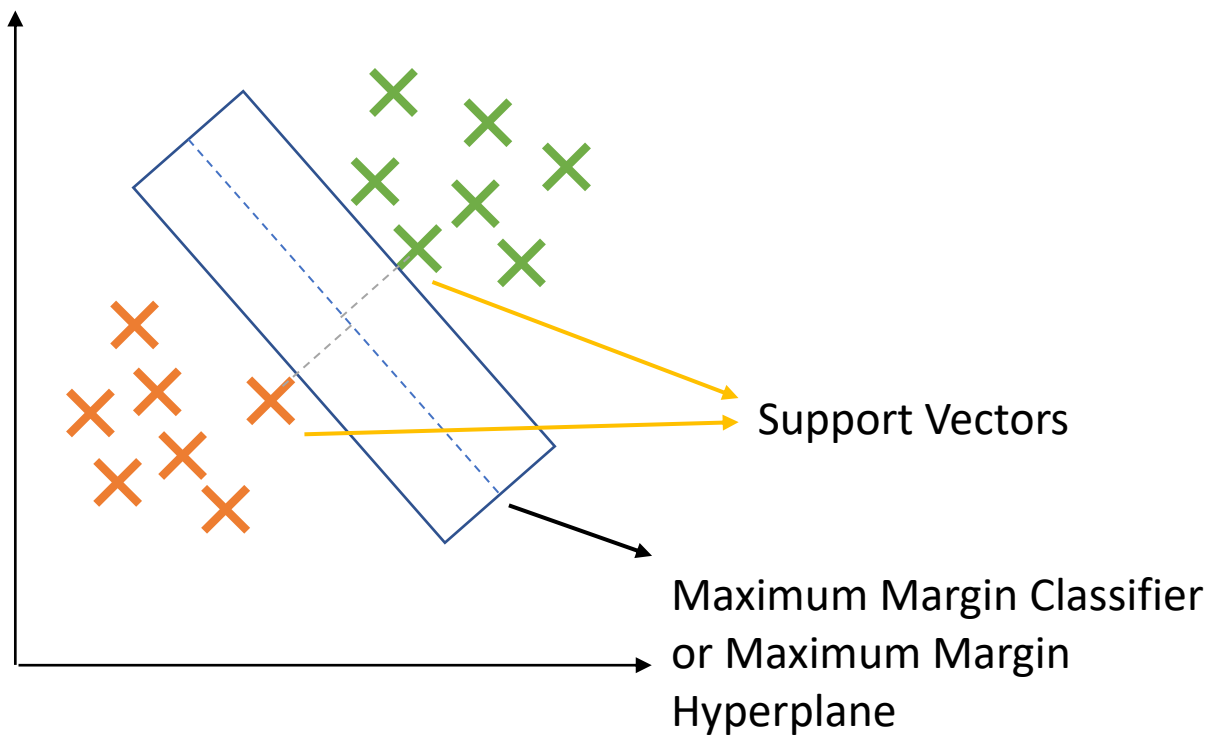
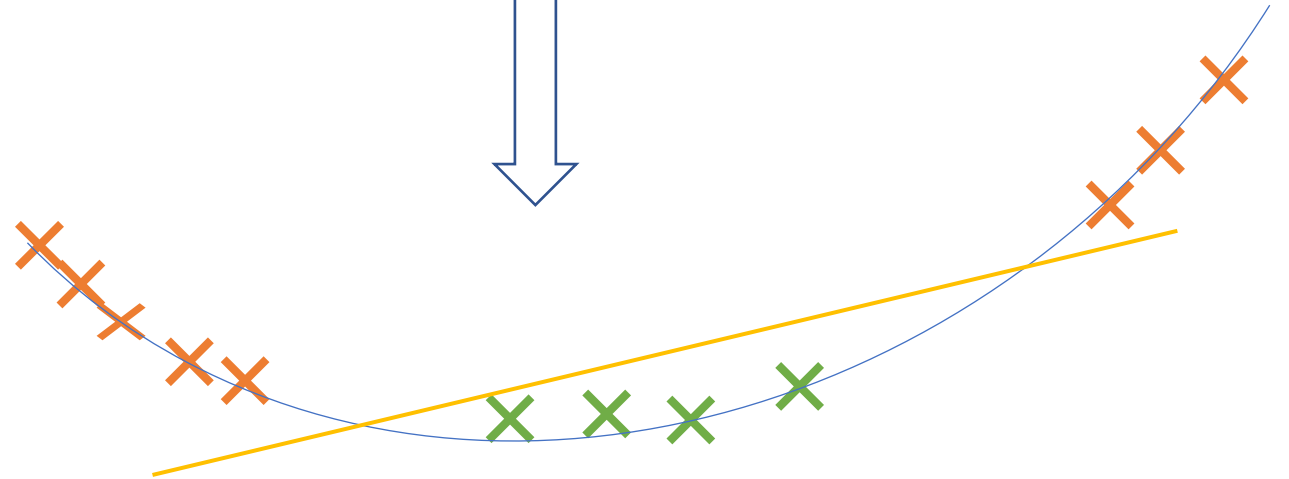
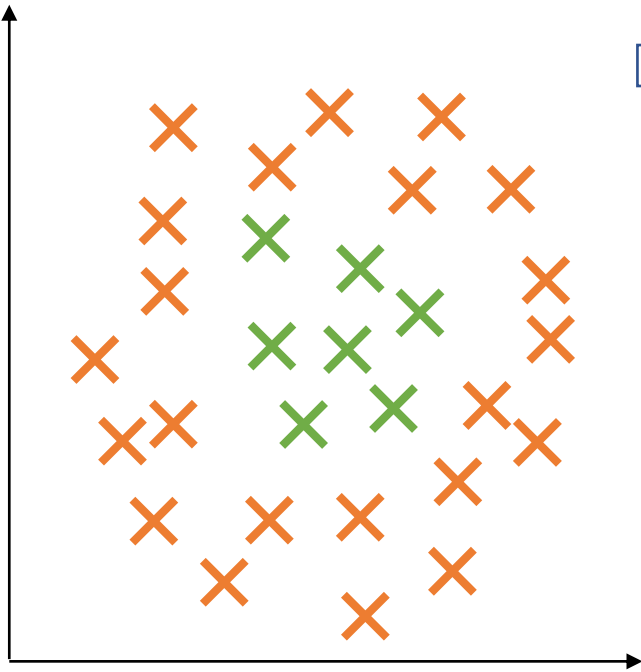


Kernelized Support Vector Machines: -





$$x_i = (B_1, B_2)$$

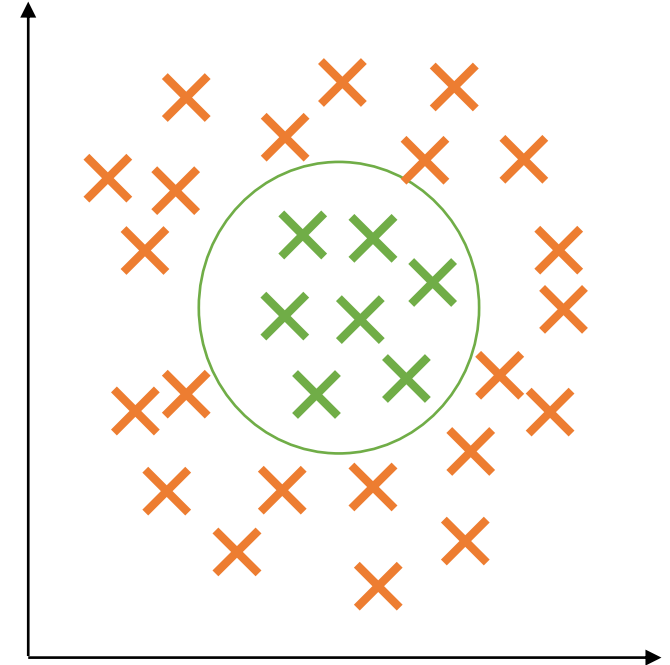
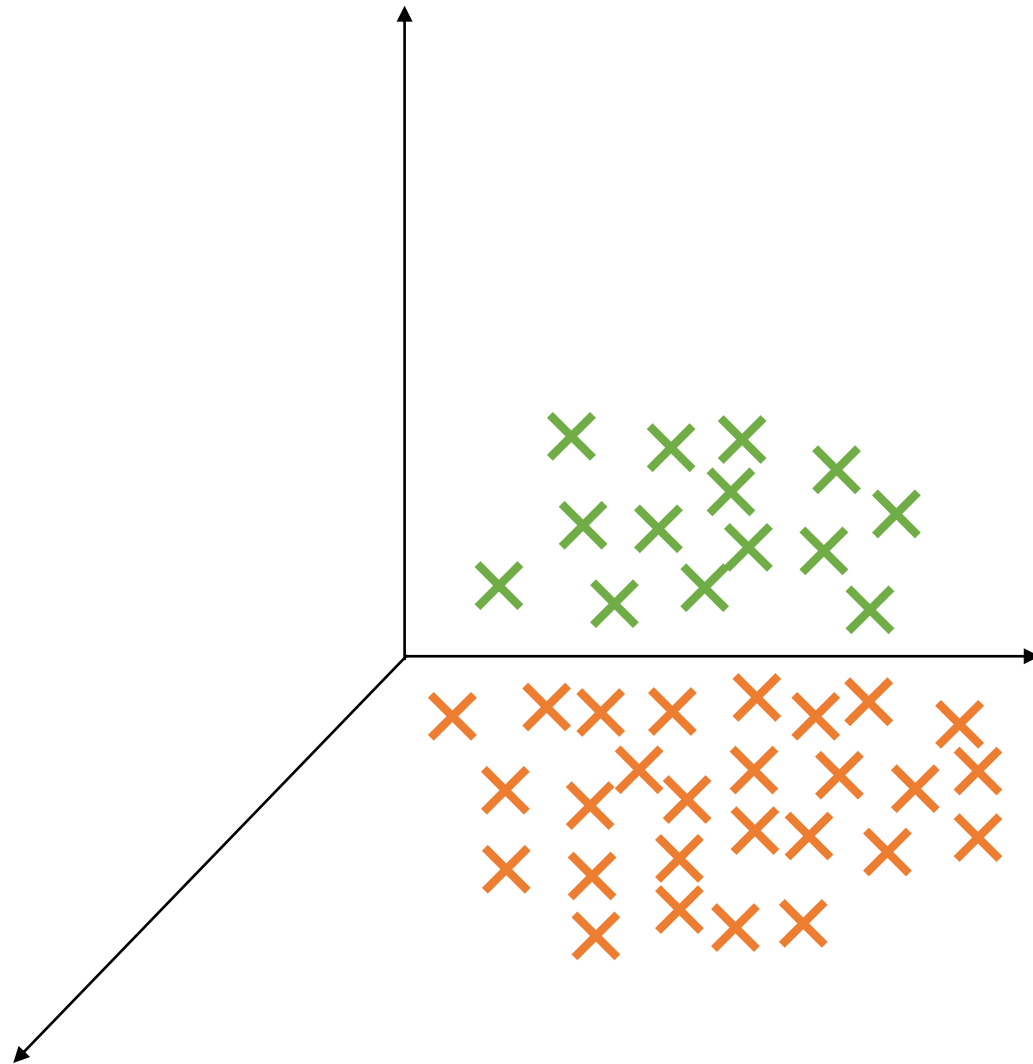


$$x_i = (B_1, B_2, Z)$$

$$x_i = (B_1, B_2, Z)$$



$$x_i = (B_1, B_2)$$



- In this a 'rbf' and a 'poly' kernel are used for sending the data into higher dimension.
- Similar to remaining models, a regularization parameter c is used in SVM.
- The strength of regularization is determined by C
- Larger values of C : less regularization
 - Fit the training data as well as possible
 - Each individual data point is important to classify correctly.
- Smaller values of C : more regularization – More tolerant of errors on individual data points
- Also another optimization parameter gamma is used to control the distribution of data.

