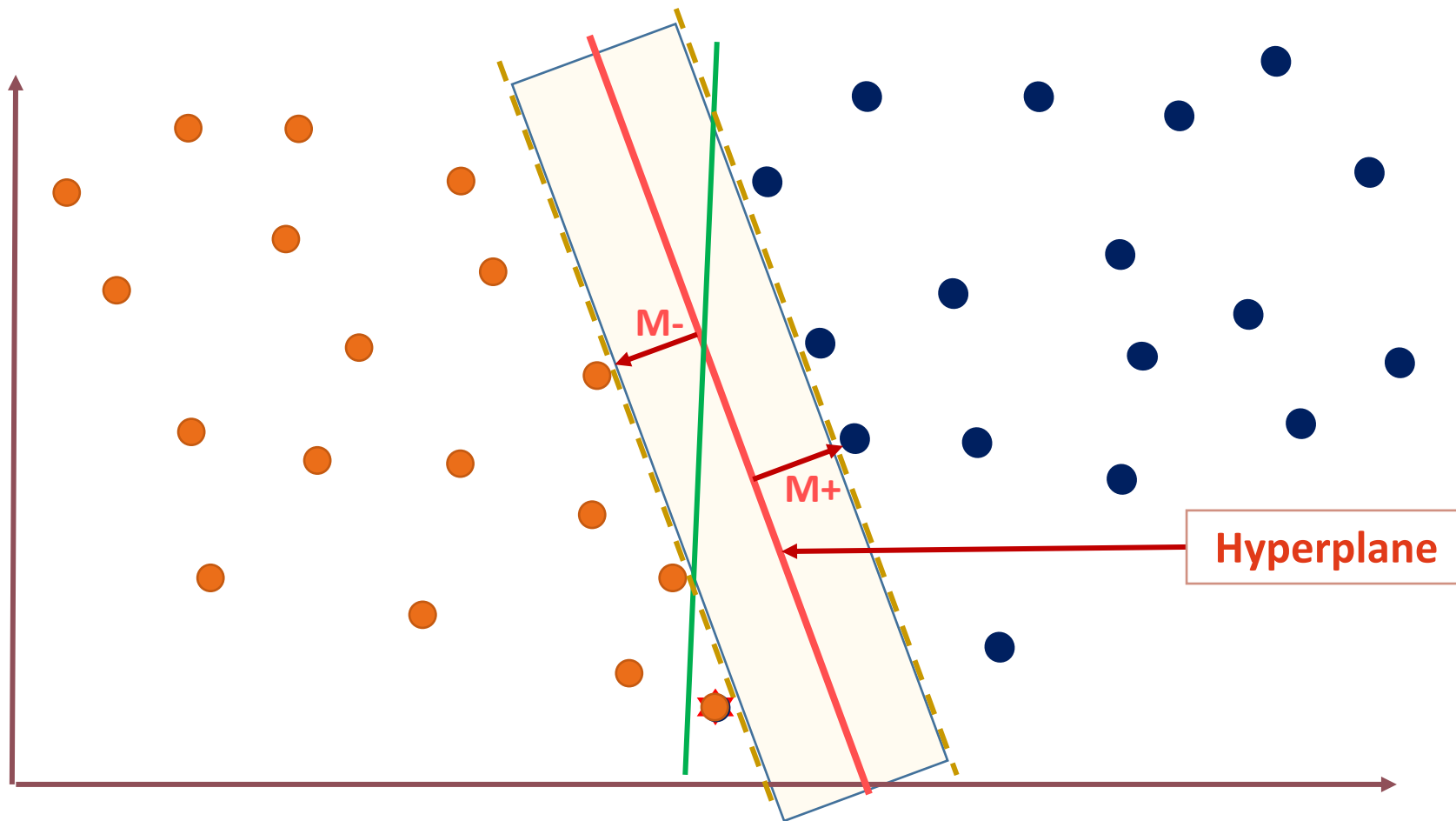
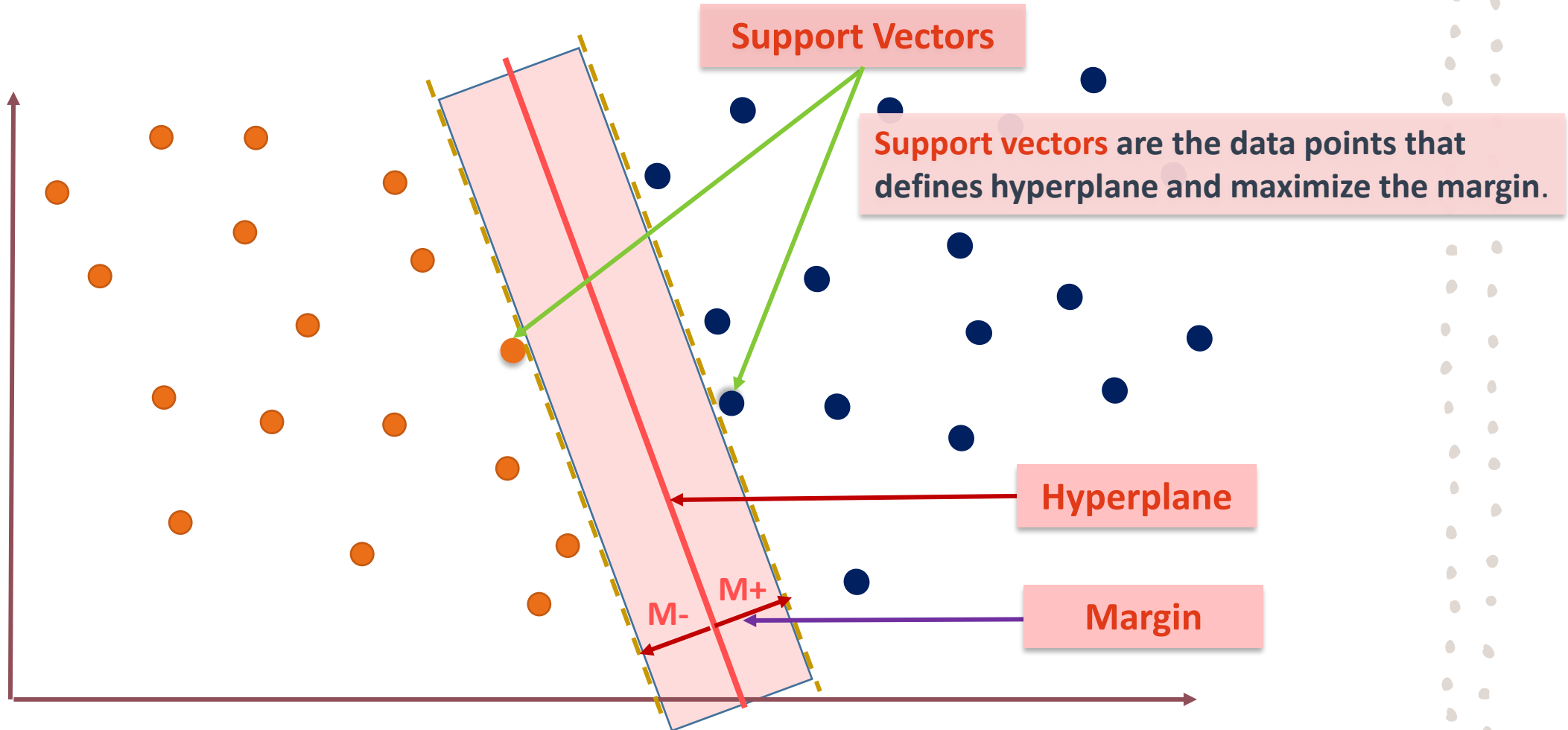


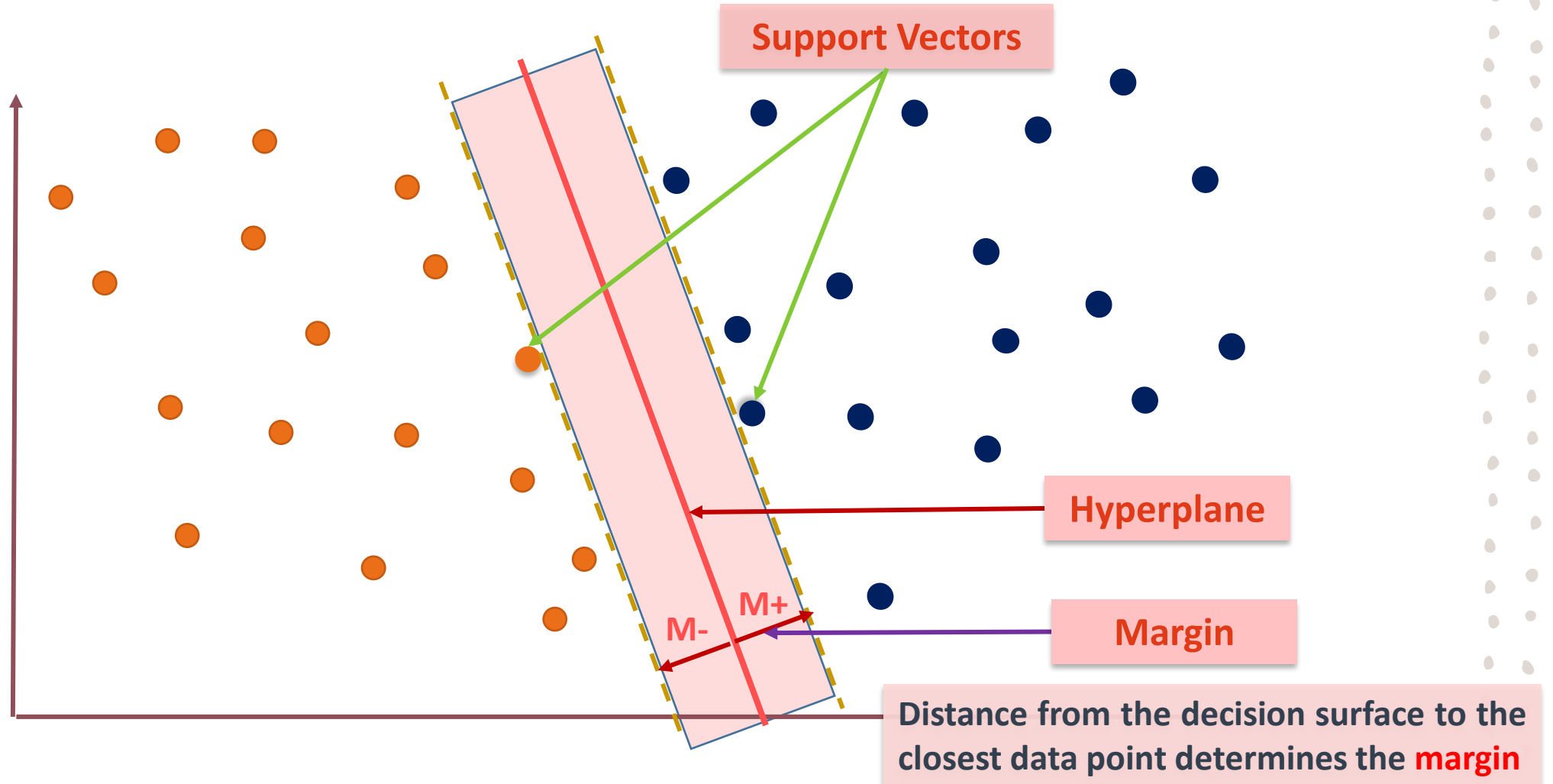
Support Vector Machine (SVM)



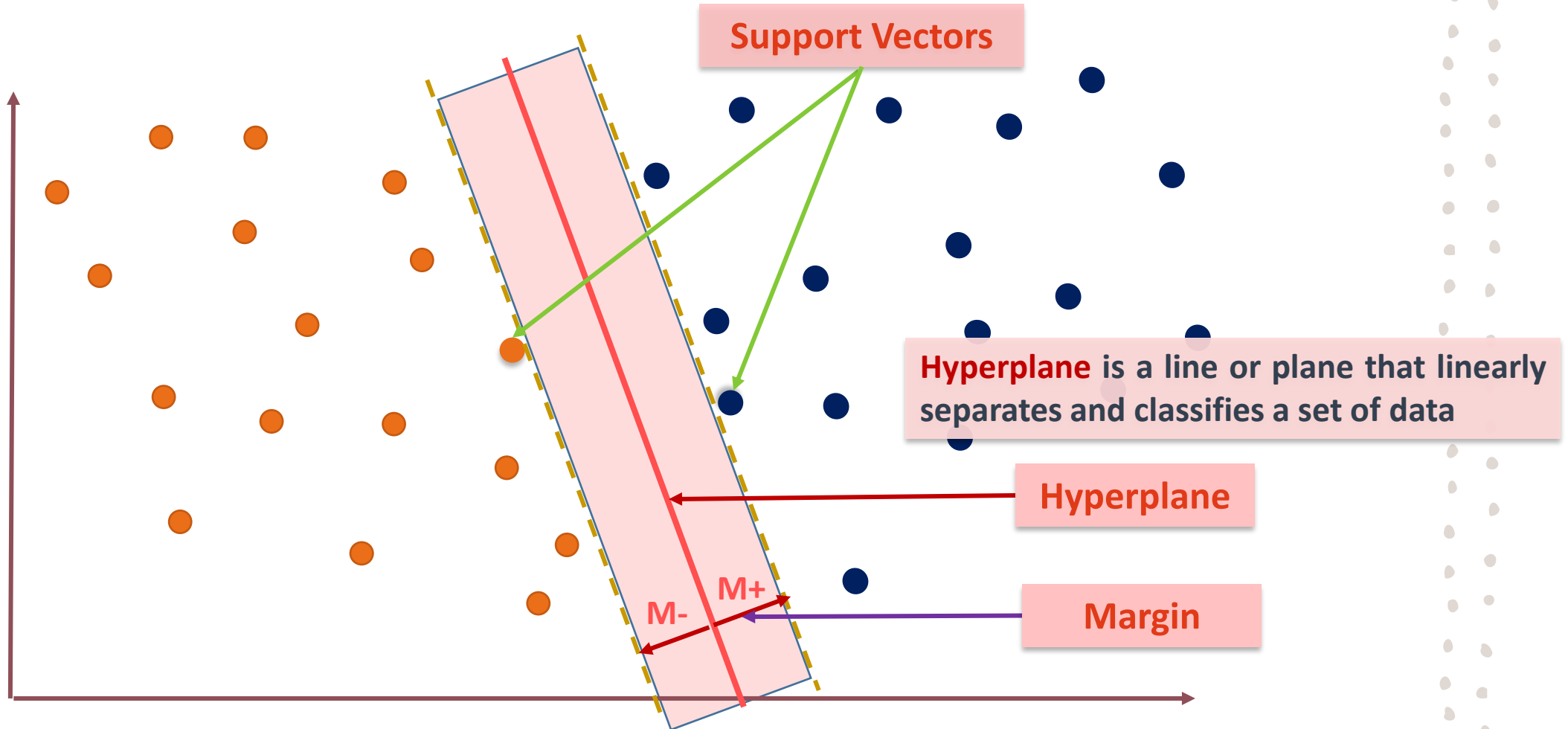
Support Vector Machine (SVM)



Support Vector Machine (SVM)



Support Vector Machine (SVM)

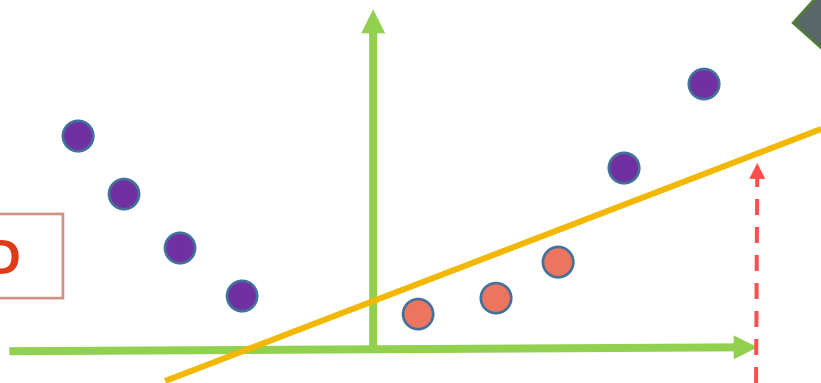


Kernel tricks

1-D

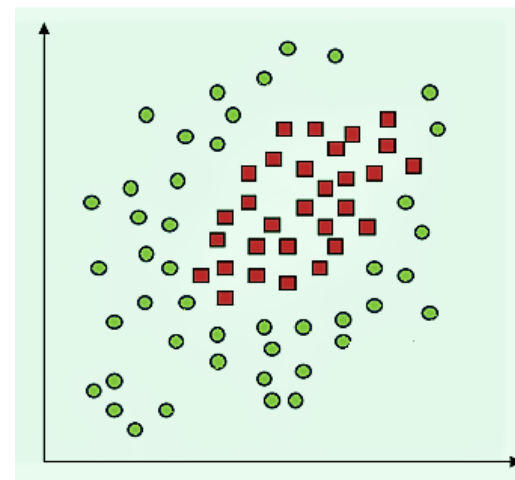


2-D

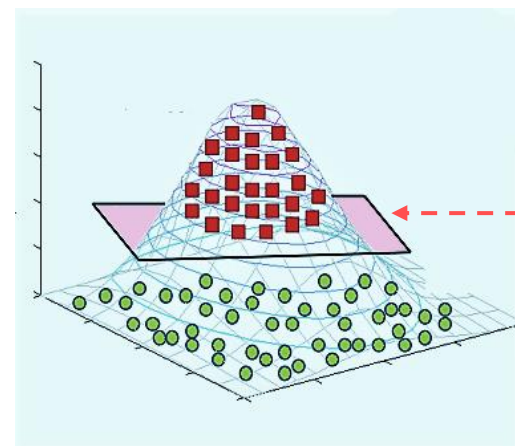


Hyperplane

2-D



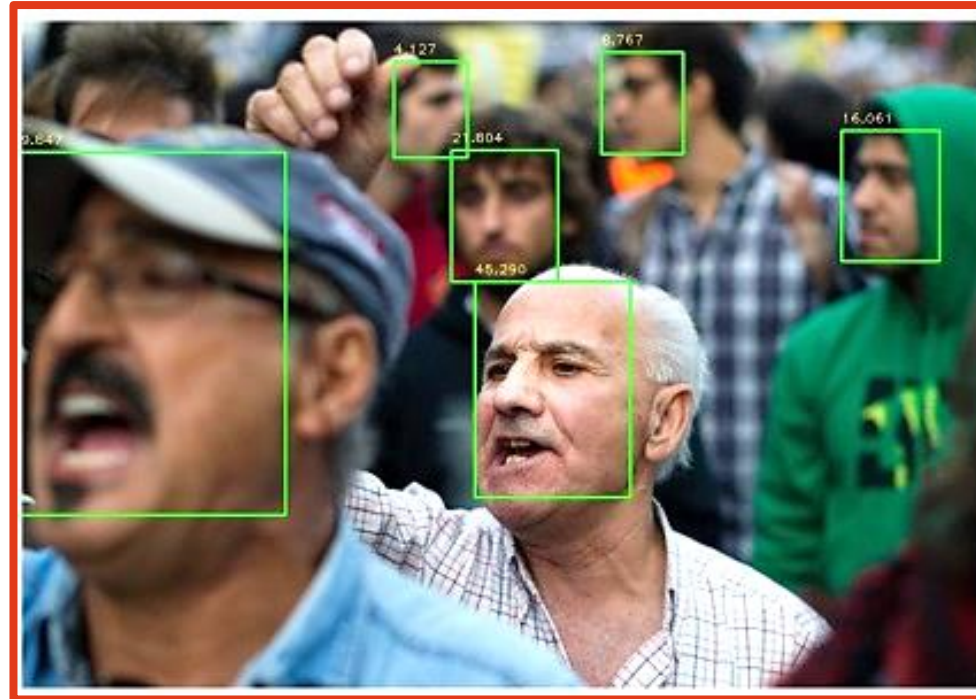
3-D



Hyperplane

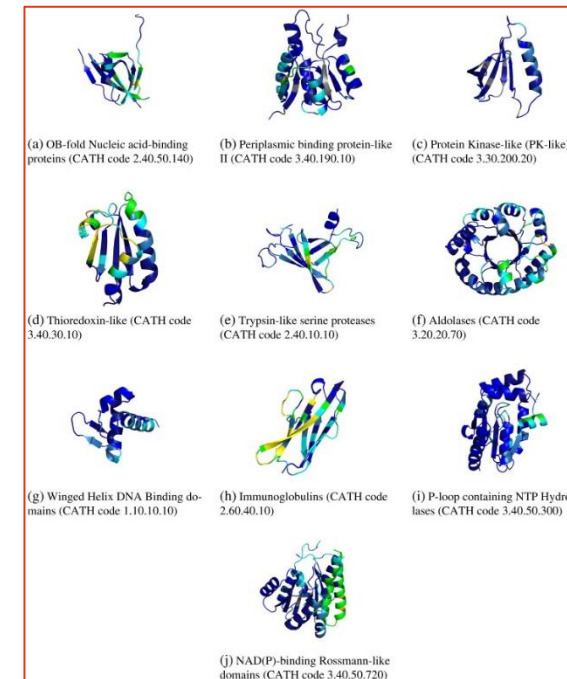
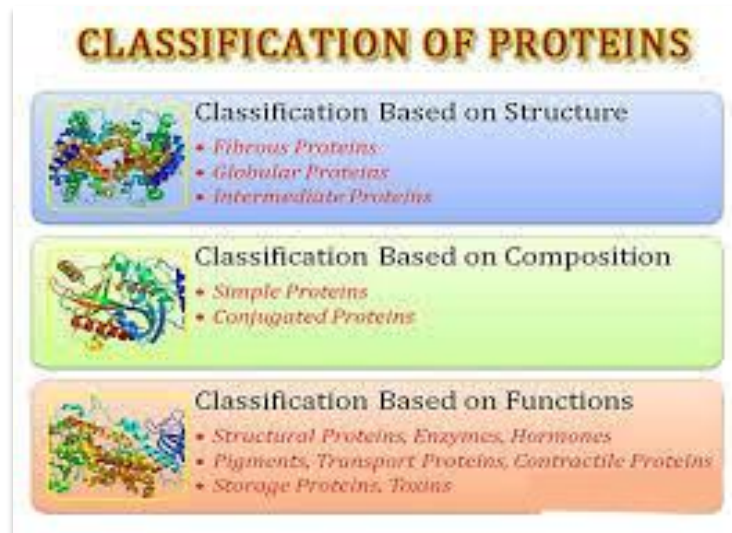
Applications

Face detection – SVMc classify parts of the image as a face and non-face and create a square boundary around the face.



Applications

Bioinformatics – It includes protein classification and cancer classification. We use SVM for identifying the classification of genes, patients on the basis of genes and other biological problems.



Applications

Spam Detection – detect unsolicited and unwanted email and prevent those messages from getting to a user's inbox.

