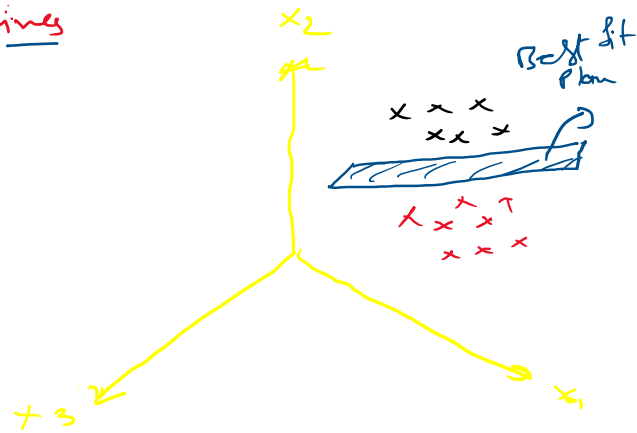
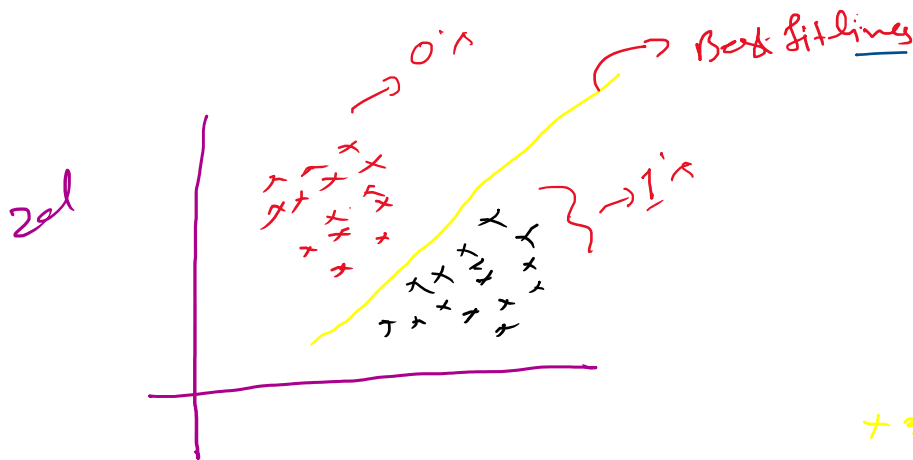
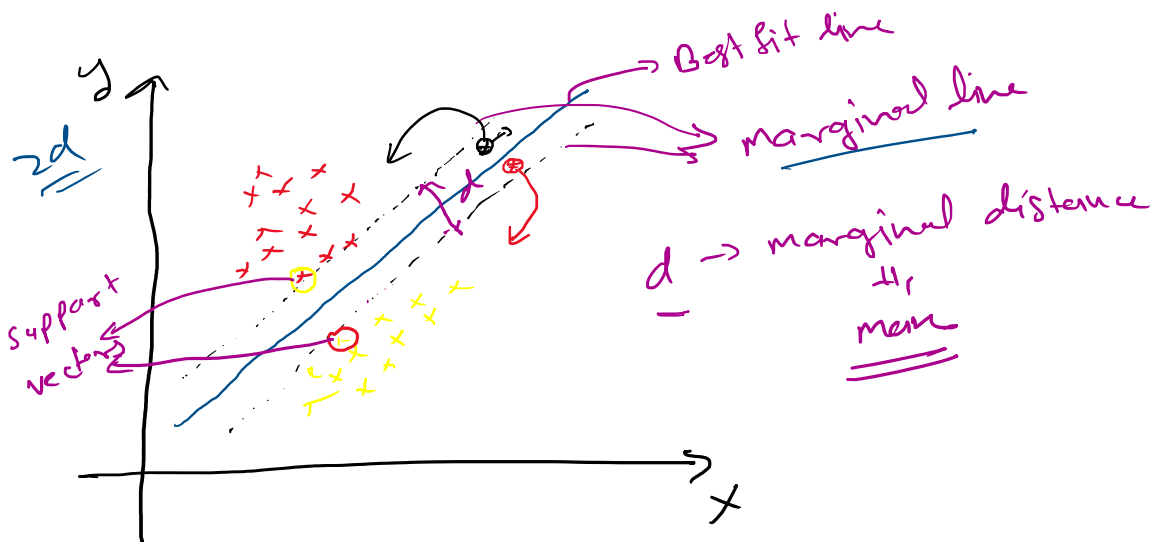


Support Vector machine ML Algorithm

- ① SVC (Support vector classification) \rightarrow Classification
- ② SVR (Support vector Regression) \rightarrow Regression



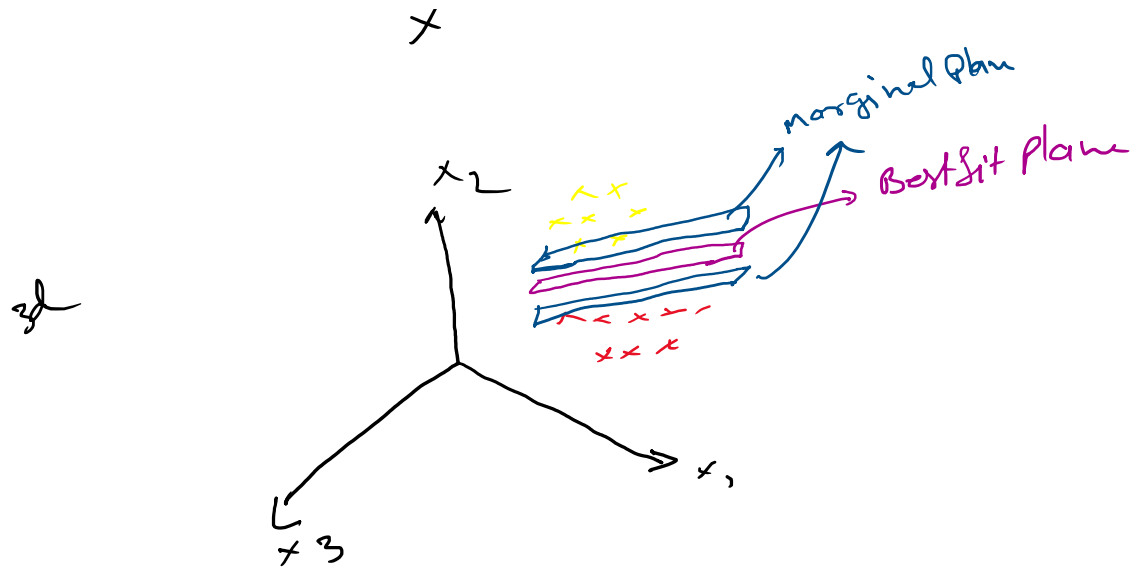
① Support vector classifier (SVC)



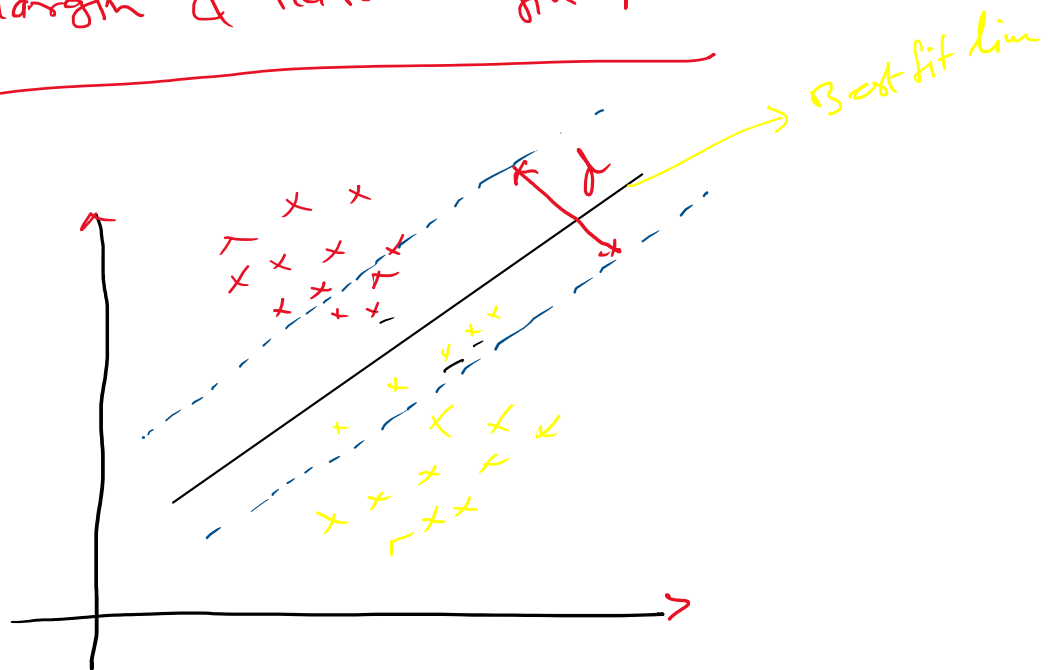
$$\boxed{d_1, d_2, d_3}$$

critical plane

1



Soft margin & Hard margin in SVM



Hard margin \rightarrow None of the data points are misclassified

Soft margin \rightarrow Some data points are misclassified [error]

\rightarrow marginal line & best line

