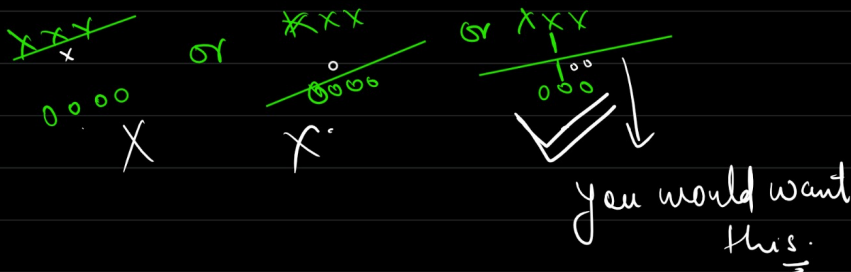
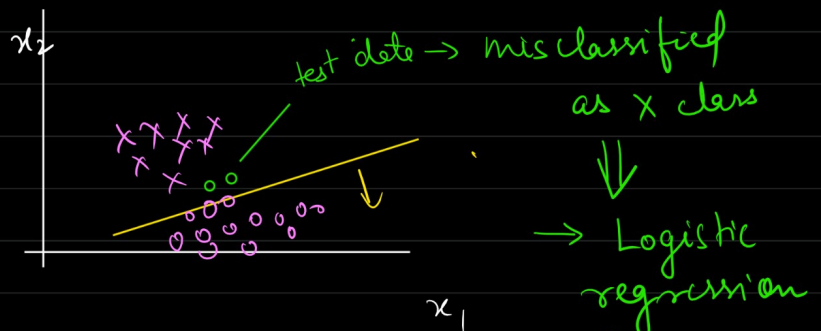
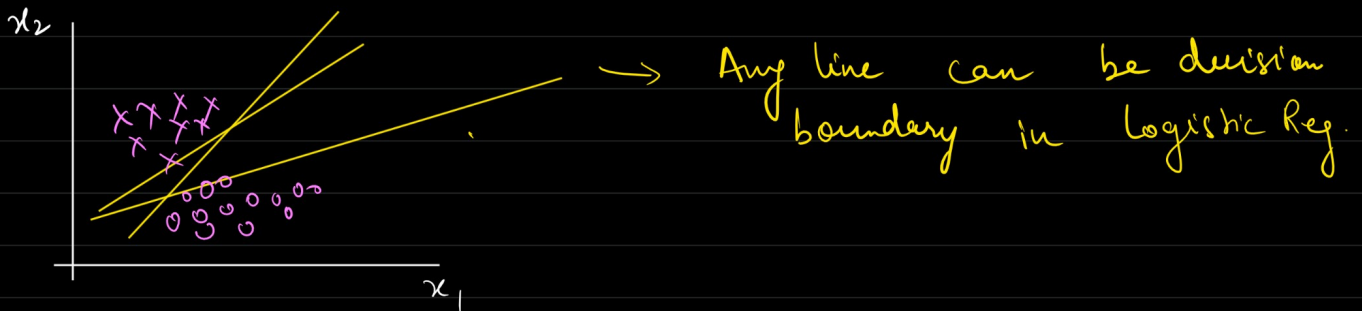
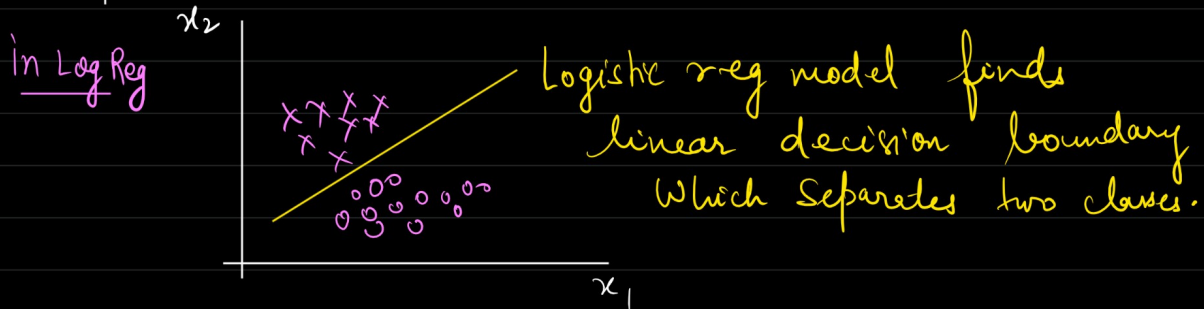


# Support Vector machines

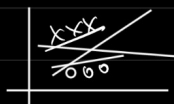
- ① Support Vector classifier  $\rightarrow$  Classification
- ② Support Vector Regressor  $\rightarrow$  Regressor

SVC, SVR

## ① Support Vector classifier



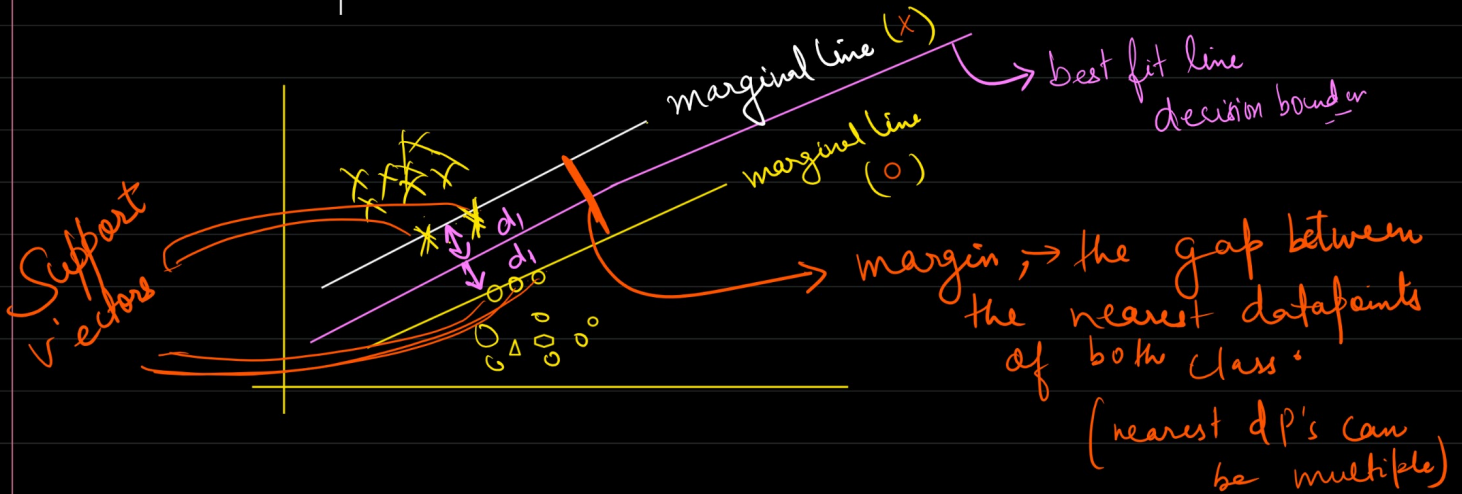
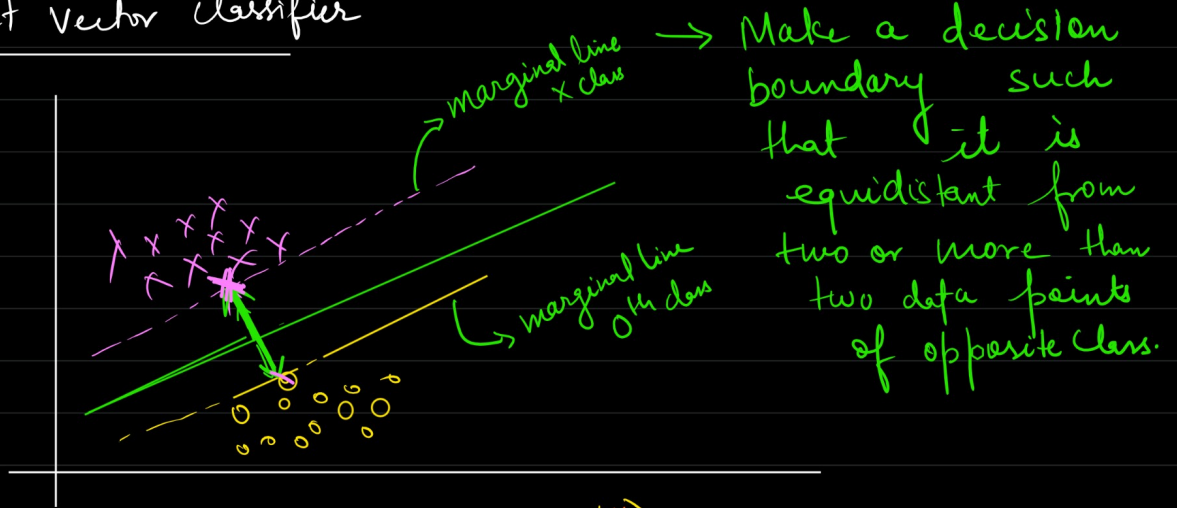
\* Logistic regression model doesn't care about margin / space across two class.



\* if the data points changes slightly, log reg model will give error.

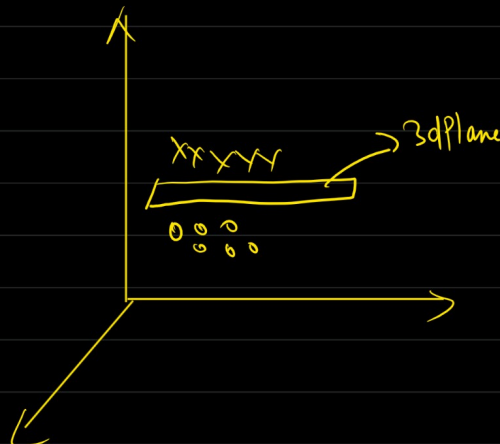
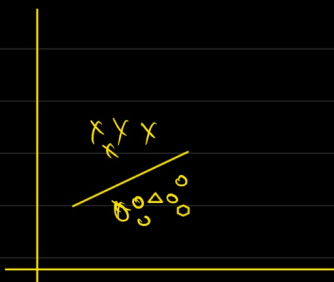
It will belong to other class.  
Hence Log reg is prone to error

## \* Support vector classifier

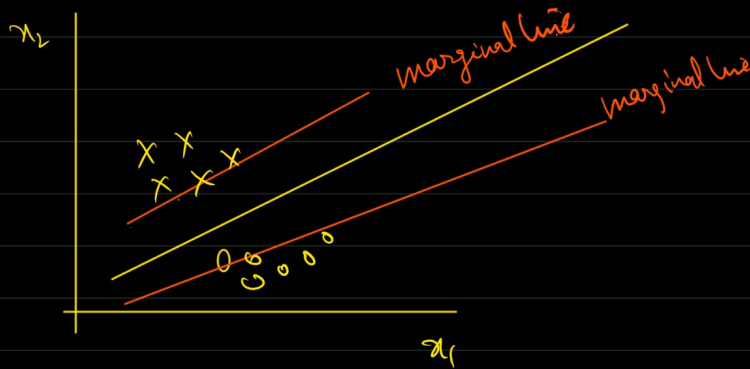


Support vectors

log regression



## Similarly in SVM



in case of multiple features

