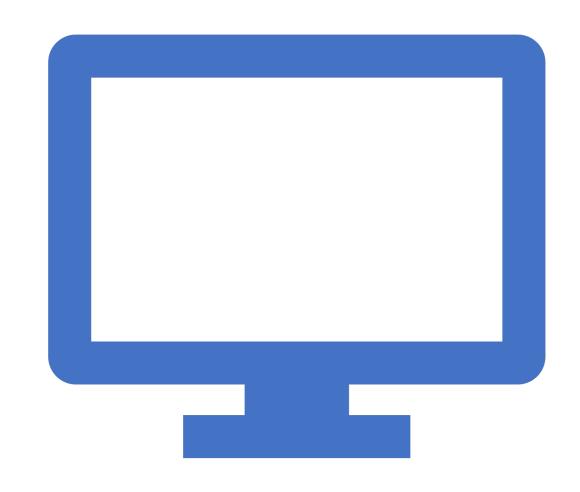


Machine learning Part F

Part of Future Connect Media's IT Course

By Abhishek Sharma



Topics to be covered:

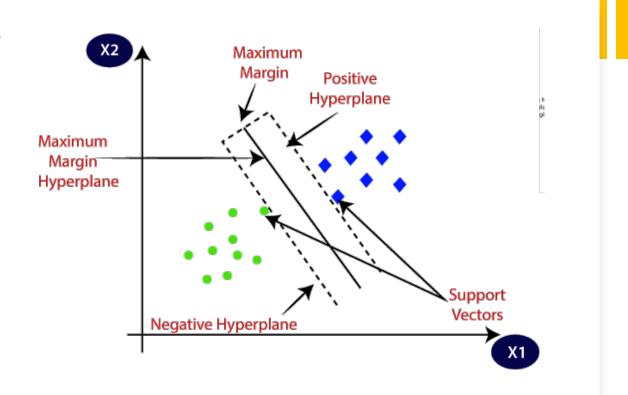


- Support Vector Machines
- Kernal Support Vector Machines



Support Vector Machines

 Support vector machines so called as SVM is a supervised learning algorithm which can be used for classification and regression problems as support vector classification (SVC) and support vector regression (SVR). SVM is based on the idea of finding a hyperplane that best separates the features into different domains.

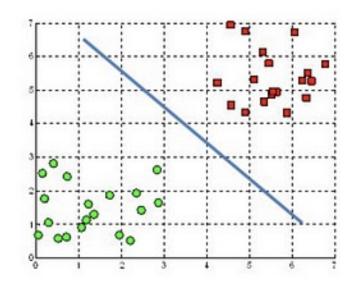




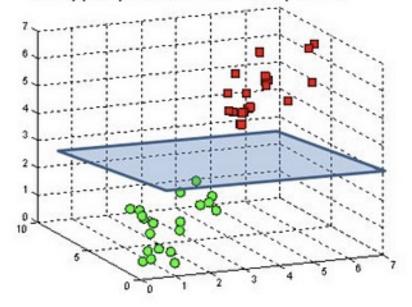
Continue

- Hyper plane
- Margin
- Maximum plane

A hyperplane in \mathbb{R}^2 is a line

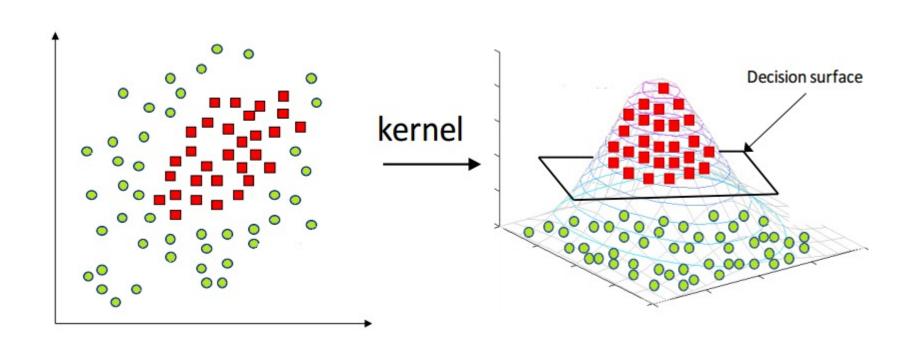


A hyperplane in \mathbb{R}^3 is a plane





Kernal Support Vector Machine





Kernal in SVM

- Linear Kernal
- Radial Basis Kernal
- Polynomial Kernal
- Sigmoid Kernal