# **Machine Learning**

## **Video 116:**

# **Kernel Trick in SVM | Code Example**

Example:

Code link:

https://github.com/campusx-official/Support-Vector-Machines-SVM-/blob/master/Kernel%20Trick%20SVM.ipynb

#### **Video 117:**

## **Kernel Trick in SVM | Geometric Intuition**

Nothing to be noted.

## **Video 118:**

## Naive Bayes Classifier | Part 1 | Conditional Probability

What is Conditional probability?

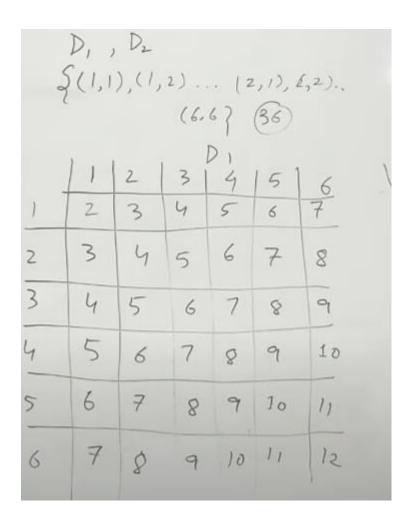
$$A,B$$

$$P(A|B) = P(A|B)$$

$$P(B)$$

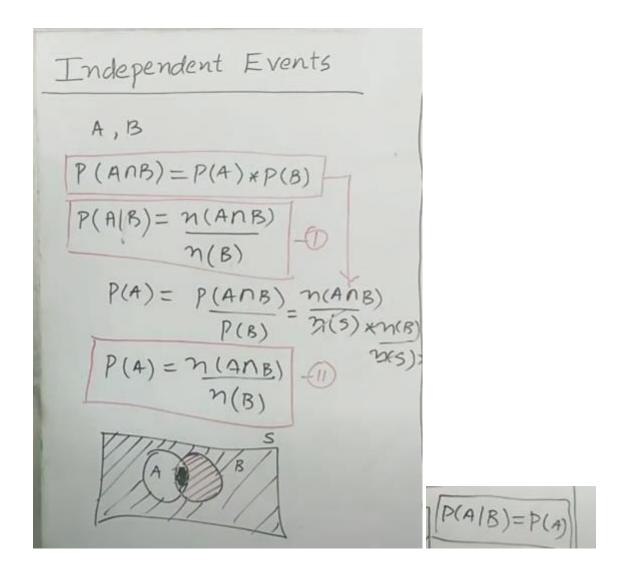
$$P(B) \neq 0$$

Example:



<u>Video 119:</u>

Naive Bayes Classifier | Part 2 | Independent Events in Probability



## **Video 120:**

## Naive Bayes Classifier | Part 3 | Mutually Exclusive Events

$$A,B$$

$$P(A\cap B) = 0$$

$$P(A|B) = P(A\cap B)$$

$$P(B)$$