Variants of Naive Baye's

- 1) Bernoulli Naive Bayes
- (2) Multinomial Naive Bayes
- 3 Gaussian Naire Bayes

1) Bernoulli Naive Bayes

Whenever your features are following a Bernoulli Distribution, then we held to use Bernoulli Naive Baye Algorithm.

Datant

Burnoulsi -> 0,1

When outcome will 0 or 1:

fi f2 f_3 0/1 Pass Male YUS Yu Ya Fail No Female No Pais Yus Mak Yu Fail Fragle No

(2) Multinomial Noive Bayes = Ip = Text

When your i/p data is in text & it is classification problem, use it

Datasit: Spam Classification

DIP

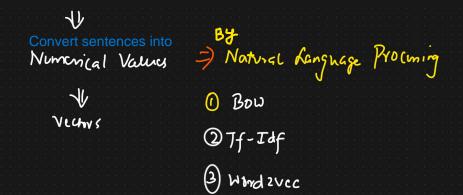
I/P -> Email Body feare Span Not Span

You have Million \$\$ lottery

Spam

KRISM YOU MANY DONE

HAM



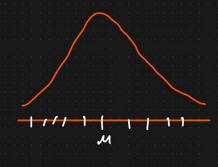
3 havesian Naire Bayes.

If the fearners are following Goursian Dishbution, then we use

Gaussian Naire Bayes

DATASET - CONTINUOUS FEQ TUBE

IRIS Datase



Age	neight	Weight	YUND						
92	170	78							
38	160	75-							
22	150	60							
14	170	31-							