Variants of Naive Bayes
1) Bernoulli Naine Bayes 2) Multinomial Naine Bayes 3) Yoursian Naine Bayes.
(3) Yoursian Naire Bayes.
* for different types of dute, different variants are used.
1) Bernoulli Noine Bayes
Indépendent various. Bearmoulli dist -> {0,1}
-> features follows bernoulli distribut, use Bernoulli Naine bayes.
f f 2 b 3 } (ofkn)
M Yes Good Aar 1 0 1 . Though
F IVO Best No => Sparse many
My frey Good Yes
l a la
⇒ Bernoulli Navine Bayes 0's and 1's)
2 Multinomial Naire Bayes
-> Used when Inputs are text date
Email classification -> Spain/ham
Input -> Email body y (antput)
→ Millions ef Rs you nom Spam → offer letter Ham
Using NLP technique
The Till Till
Vectors (3) Bow (3) Word 2 Vec.

* Multinomond and Bernoulli Naive Bayes is used for text data in Natural language processing.
used for text and the Warmer language processing.
3) Jaussian Naire Bayes
Normal distrit
Time of the state
> if the features are continous and following Normal distribution => GNB
Age Salary Frand 26 50 L 27 60 0
27 60 0
Tris dula
\times $\times_1 \times_2 \times_3$, \times_n
la Jackson Llew Leature
few features (few features) (x3) - xn)
Bernoulli dist Gaussian N.D
Juse that method which ever feature is higher in no.
is higher in no.
Cour. XX > Boundli diet
$\begin{cases} \langle 1 \rangle \rangle \rangle \rangle \rangle \rangle \rangle \rangle \langle 1 \rangle \rangle \langle 1 \rangle \rangle \langle 1 \rangle \rangle \langle 1 \rangle \langle 1 \rangle \rangle \langle 1 $
Say (X, X2 -> Beauvalli dist X3, X4, X5 Xn -> Yoursian Normal dist
You will Janss'an Nav'ne Bays Classifica.
Campin.