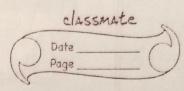
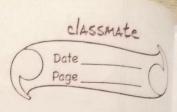
ridge\_regressor. best\_score\_ w88 Fxn=> (ross-Entropy NAIVE BAYES CLASSIFICATION 2> Based on Bayes Theorem P(A/B) = P(A) \* P(B/A) This model olps probability so, it is very small.

so, we need to apply Normaliz -alion
4) cur >0.5 =>1
<0.5 >0 Fore.9 by P(Yes/xi)=0.13 P(No/xi)=0.05, Normalization P(Yes/xi) = 0.13 = 20.72 => 1 6.13+0.05

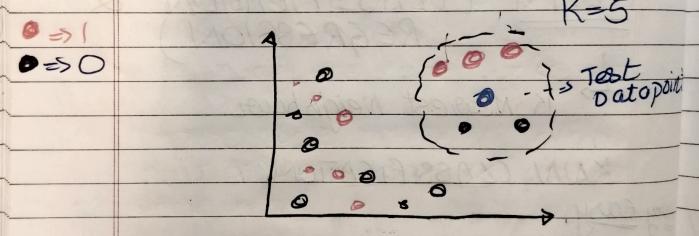


Use when feature are mostly indeper-ndent. Not great for complex Relationship.
Extremly Fast: KNNL (CLASSIFICATION & REGRESSION) L> K Nearest Neighbour. KNN CLASSIFICATION i) select Hyperparameter K. ii) Put the Test Datapoint on the Graph o --- Test int K Nearest Neighbour either



on the basis of Eudeadian Distance

which one of more class, we will assign the label to our datapoint of that class.



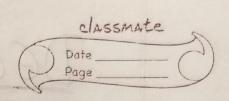
## KNINI REGRESSION

La Same Procedure

Assign the value to new datapoint

6/p by taking average of K

newrest neighbour ofp.



## Problem with KNN

D Should not have outliers.

Should not have on balancecl

Dataset

Eudeadian Distance

4 / (x2-x1)2+(42-41)2

Man heitlan Distance

6 122-4 1(x2-x1)+142-41)1

KNN Regrossion
Ly Loss => Mse No loss
fxn

KNN Classification Loss function