K-Newsert Neighbours. (KNN) K-Mems Clustering Consuler vised Mh used for growfing / Clustering

KNN: > Supervised Morbine Learning algorithm used for

both Regression and Classification. Sogisti Reg > Clossifical^e Linear Reg > Regreccion K-meons K=number of Cluster K = Newsest Neighbour to the Test Point.

If we ose dealing with Clossifical Problem,

Noting is done

When kindle 2(--) } - Majority Voting -> (-) is the winner. when kinever 2 (--) } - Majority Voting > Prow (seates)

Ambiguity) So always freser K= old valve.

If we are dealing with Regression Problem,

K= Even or Odd K= Even or Oc K= H Test Point.

Average of my 4 datapoint, As we have taken $k \approx 4.$ $2.6 + 2.9 + 3.2 + 2.3 = \frac{11}{4}$ Test point = 2.75 In Regression Problem, we take Average or Mem value.

(2) Why KNN is called as Lazy Learner? (*X.*)

Model gets trained.

X-train

Y-train

L.R. Trained. Now, the model lecond the data, on becomes generalized.

In KNN > No Training (Training time is very less). Jesting Data (It takes a lot of computation. As number of Minensions increases, Your computation time also incoeases. c-g- KNN is not used in Production.