K Nearest Heighbour (Kun)

- 1 Classification
- 2 Regression

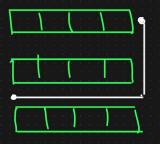
TRAINING DATA

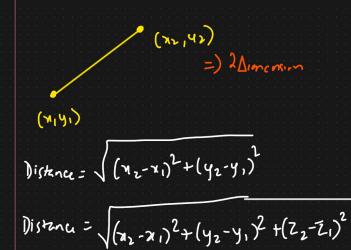
- O We have to initialize the K value K≥O K=1, 2, 3, 4,5-, 6 => Hyperparemeter
- 2) Find the K Negrost Neighbour from the Tet DATA
- 3 Firm those K=5 how many heighbours belongs to 0 ketgry and 1 category -

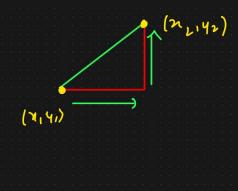
Distance McMcs

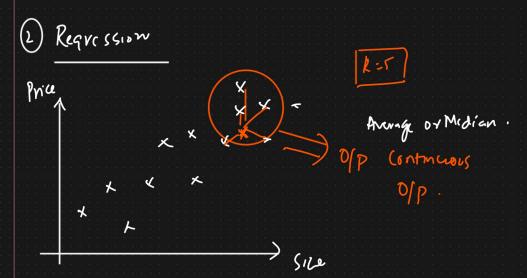
1) Euclidian Distance

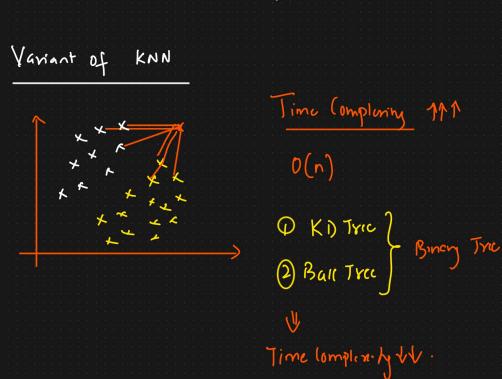
2 Manhattan Distance







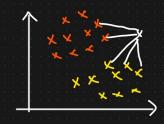




Variants of KNN

Two Variants

- K D Trec
- Ball Tree



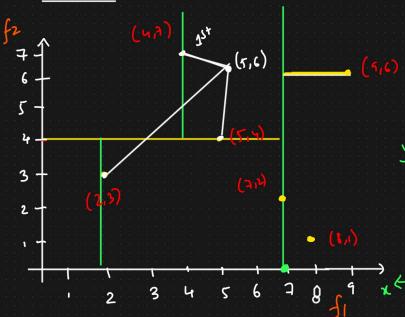
K=3

Time Complexity

Brute Scarch

Auto

KD Trec K - Dimensions Trec



Time Complexy **↓**∤⁄.

(9,0) YOUL ?

2) Median of 1, 2, 3.4, 6,7

2) Bay Tree

