

Fuchidean formula Mostly used in airlines) V(72-71)2+ (42-41)2 Manhattan distance: Detanification to the water 71-12 + 191-42 KNN- Classification we have seen rightly KNN Regression: step: vc mill compute

The distance fun test data. (nearst) · Take the average of these points SOUTH SAN MANUAL THE CO

## KNN Optimization:

· Inorder to find the nearest neighbour, we don't need to find the distance from all the points. (Time complexity - o(n)).

he can optimize this by using:
- KD Tree

- Ball Tree.

## KD Tre:

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It splits the data recursively occurring the axes ( creaks a BST).

Then, the new test data is searched.

In to Tree, he have to bout track. to the datpoints.

## Ball Tree:

- · It creates group of nearest points.
- · This process is repeated till all the datagraints are covered.
- o It whenever the new data comes, the group is charked and the nearest

reighbaix are then selected.

This does nt require bout-tracking. Awadepha stomore established exactsity and both of know tack and office pared water y abridge and the word s plant of wells o small as not and A CONTRACTOR A STEEL OF THE STATE OF THE STA described the sale dily in of the all a way well washingthe it stab back was salt will of the state of the state of the state of Market Walleton