

KNN (k-nearest neighbors)

- It is not ML algo, It's just "distance base approach".
- Here there no learning, so it called "lazy learner".

In ~~ML~~ KNN we can do

- ① Regression
- ② Classification

Classification

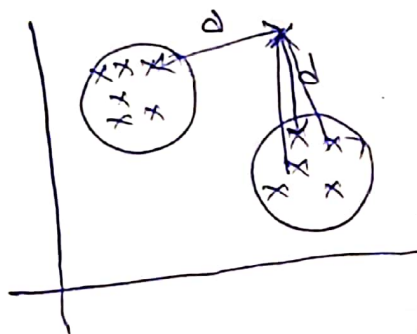
③ If new data comes,

1. Find distance from each point

2. Select the 'k' value

- k mean no. of nearest point we are searching
- k value can not be even because new data point class is decided by majority ^{voting} nearest point of each class

Eg



Regression

→ steps are same like
we take mean of
target value

classification
'k' nearest points