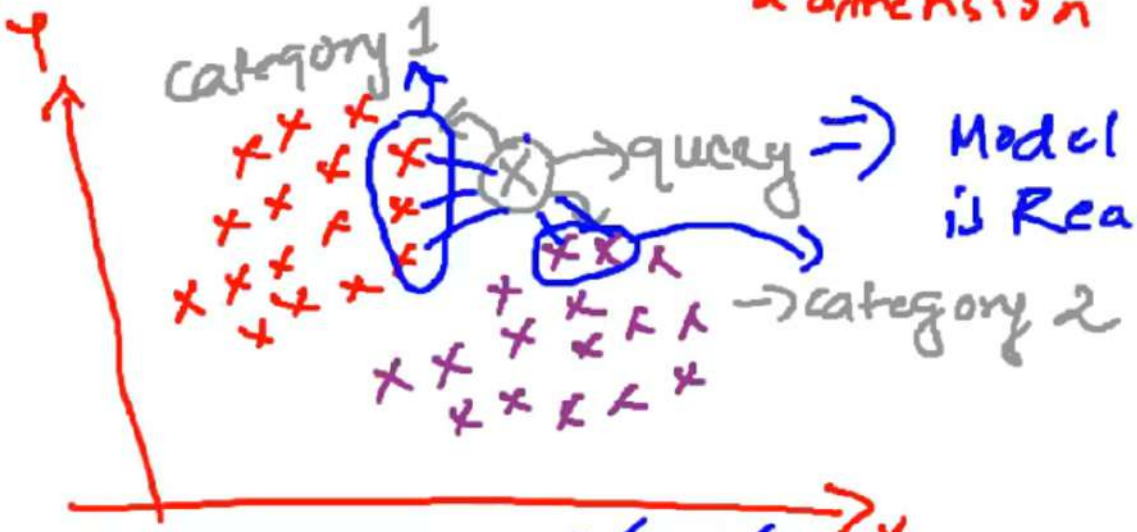
K Nearest Neighbour



⇒ Model is Ready

Category 1 : 3 ✓ ✓

Category 2 : 2

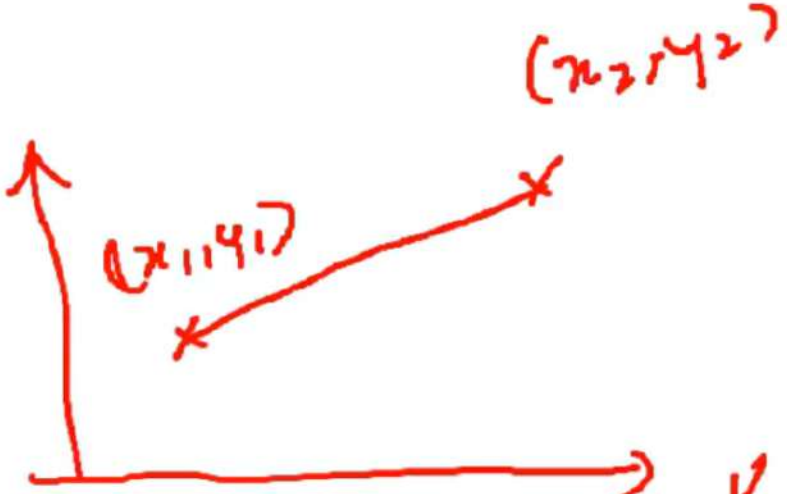
Algorithm K = 5

1) K Nearest Neighbour
2) We calculate the distance of the nearest Neighbors

K = 5

3) How many nearest neighbors ∈ Category 1 & Category 2
4)

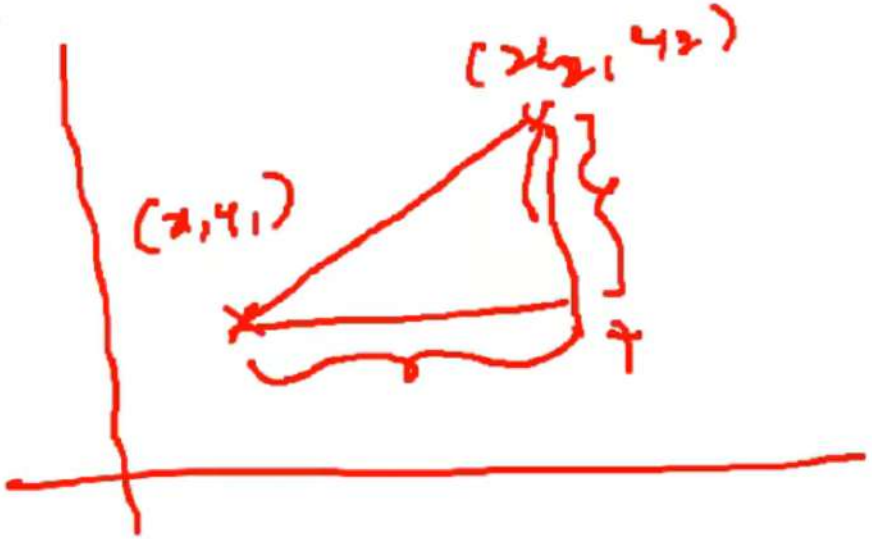
1) Euclidian Distance



$$D = \sqrt{(x_2 - x_1)^2 + (y_2 - y_1)^2}$$

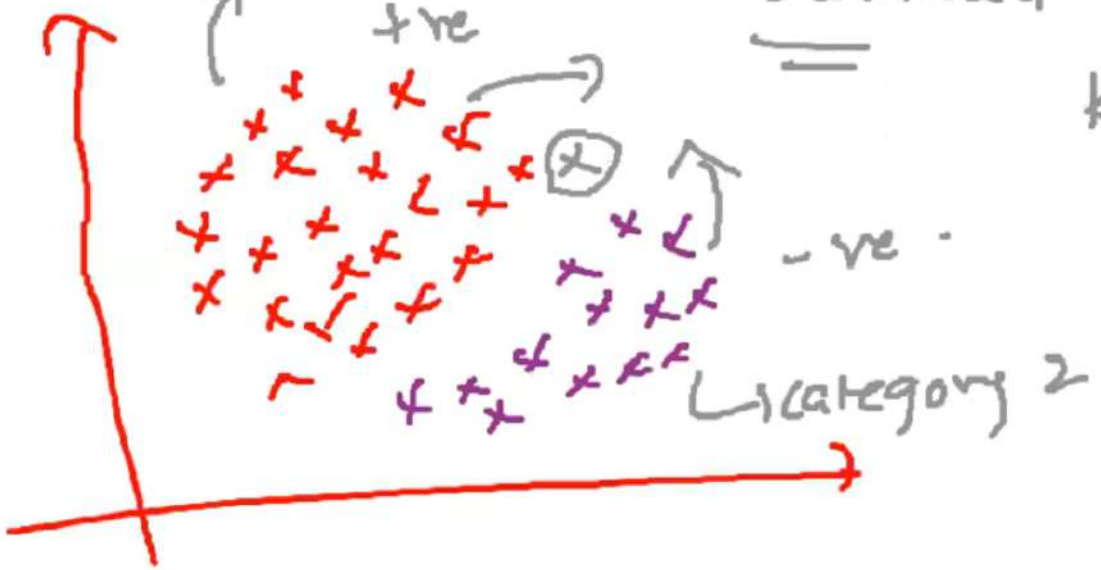
2) Manhattan Distance

works



Dataset → 900 Yes
→ 100 No

→ Imbalanced



K Nearest Neighbor

bc biased wrt o/p

K = 150 nearest neighbor

Outliers

K = 5

K Means & Neighbor