K-NEAREST NEIGHBOUR

DIMENSION REDUCTION
USING <u>DISTANCES</u> $\left(\begin{array}{c} \text{USUALLY} \\ \text{EUCLIDEAN} \end{array}\right)$

Y

X
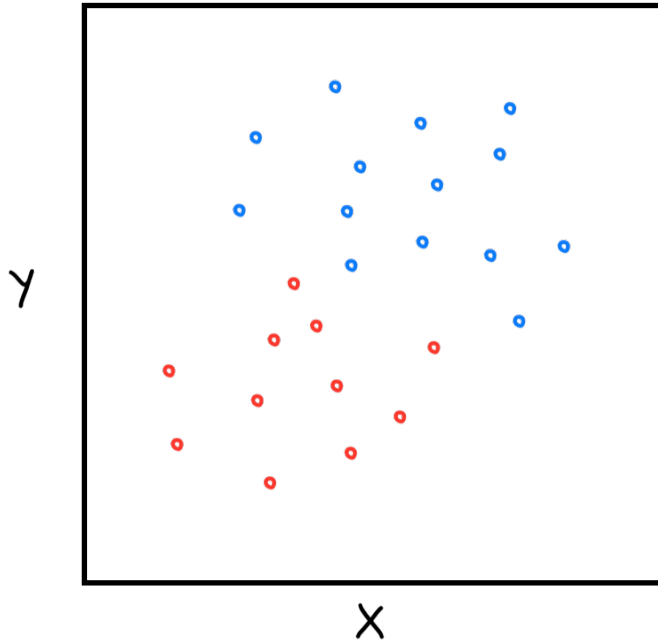
IDENTIFY "K" NEAREST NEIGHBOURS
OF QUERIED SAMPLE

HERE,
K = 3

Y

X
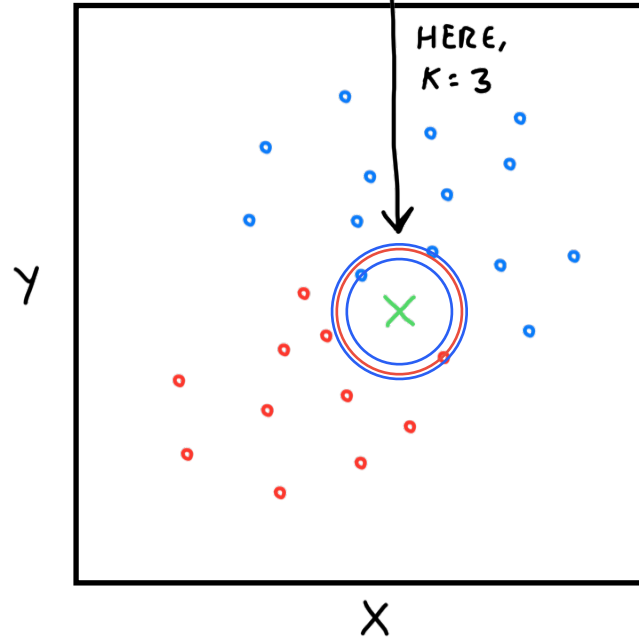
THEN, TALLY
VALUES AND
VOTE FOR
PREDICTION] TO AVOID TIES,
USE <u>ODD</u> K VALUES

|| VS |
∴ BLUE

* WEIGHTING CAN BE APPLIED
PROPORTIONAL TO DISTANCES