

The is a supervised machine learning algorithm which is used to solve both classification and regression problem with the help of k neighbour datapoints.

· classification:

 $\frac{o/\rho \rightarrow 1 \rightarrow x}{0 \rightarrow 0}$

Steps :

- i) Initialize the value of k.

 Let k=3, K>0
- (ii) Find K-neaxest datapoints by calculating distance.
- (iii) Assign the test data to the majority class in the nearest neighbours.

