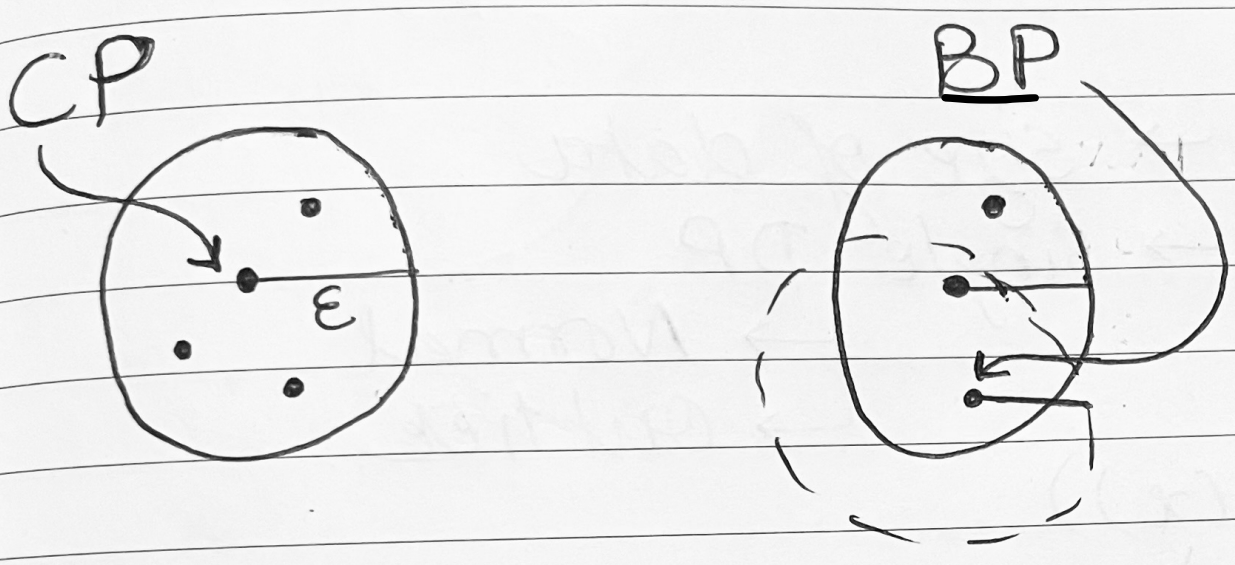
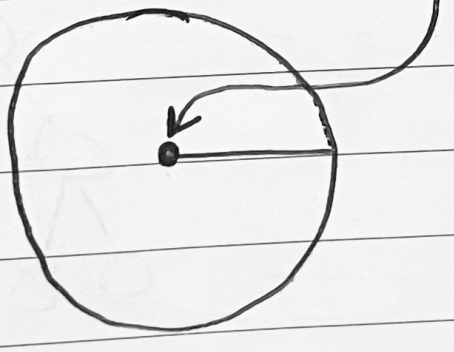
DBSCAN ε & minpoint = 3

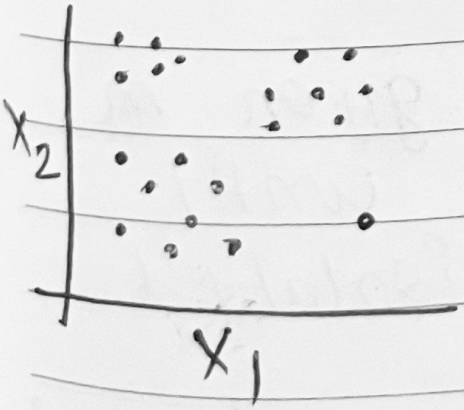


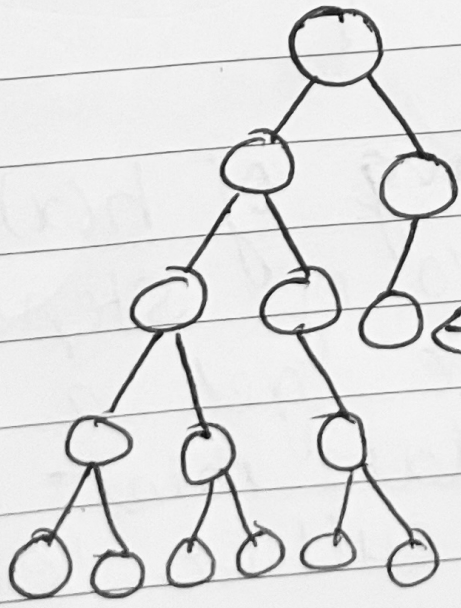
Noise / outlier



Isolation Forest → make many ITs

$\{ X_1 \quad X_2 \}$



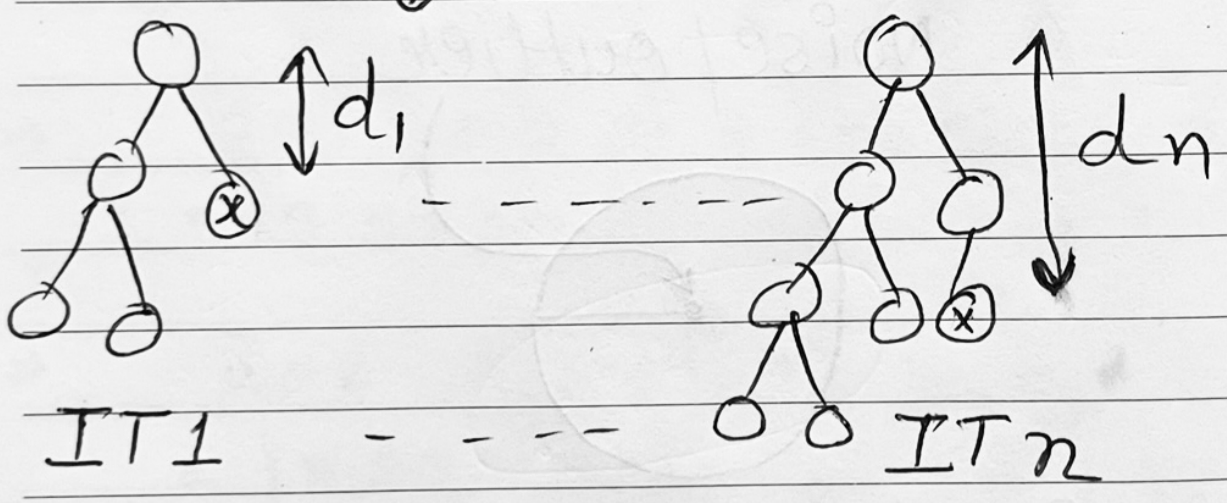


$$S(x,m) = 2^{\frac{-E(h(x))}{C(m)}}$$

$m \rightarrow$ size of data

$x \rightarrow$ single DP
- Normal
- Outliee

$E(h(x))$



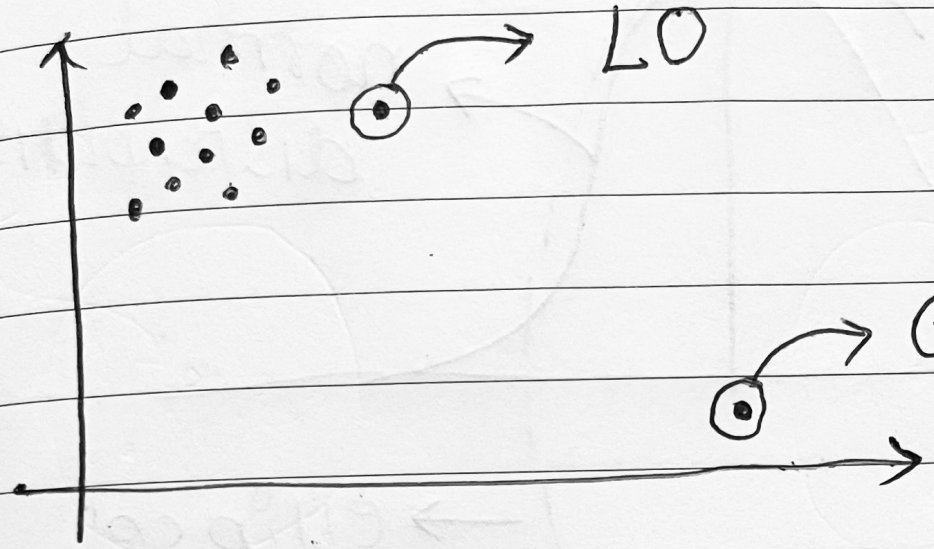
$$\frac{d_1 + d_2 + \cdots d_n}{n} = E(h(x))$$

$C(m) \rightarrow$ avg of $h(x)$ given m

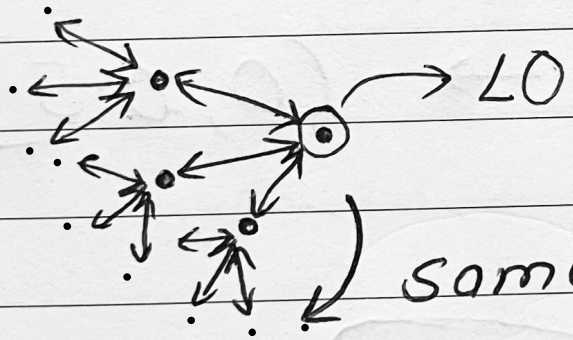
$h(x) \rightarrow$ No. of steps until we get a isolated data point

$S \geq 0.5 \rightarrow$ outliee else Normal.

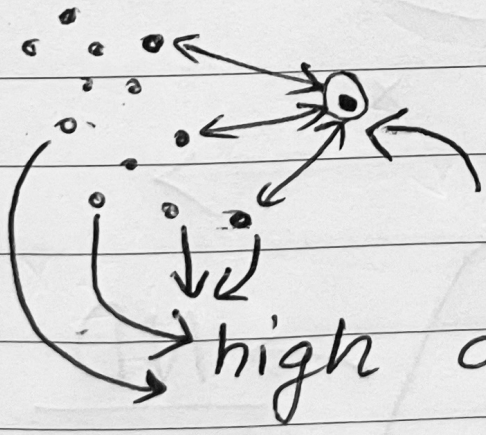
LOF



for $k = 3$



same for its neighbors



Contamination → [0, 0.5]

Elliptic Envelop