3) how to find nearest

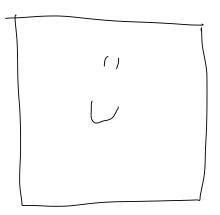
a) bruke force kn

b) tree

a) approximet a reach reshibit

Scaling V-Vmin

V max - V min



Naire Boyes p(y/x) - chocse y with liklihood prior P(y | X) =

X: i. th feature vooto X: i. th elevent of Il Maie assumption  $p(x|A) - b(x_{(1)}|A)b(x_{(3)}|A) - \cdots b(x_{(9)}|A)$  $- \prod_{p \in X} (X^{(j)} | Q)$ 

> 5 -> Sum The multiply

choose class with logest p(y/x)

MAP

maximum a posteriori P(y/X) postrior

$$P(y==c) = \frac{1}{160} \text{ Samples with class c}$$

$$= \sum_{i=0}^{N-1} S(y_i == c)$$

$$= \frac{1}{160} S(y_i == c)$$

P(y)TT P(X|y) 109 (ab) = bg (a) + log (b)