Example: Class 2 Training data Output $x_1 = \begin{bmatrix} 5 \\ 10 \end{bmatrix}, x_2 = \begin{bmatrix} 6 \\ 10 \end{bmatrix}, x_3 = \begin{bmatrix} 5 \\ 9 \end{bmatrix}$ $\begin{bmatrix} 1 \\ 1 \end{bmatrix} \begin{bmatrix} 2 \\ 2 \end{bmatrix}, \begin{bmatrix} 1 \\ 2 \end{bmatrix}$ N= {9,,90) (92 42 42 12 feature space: 1R2 Just store the training data Training: Do nothing. class 1 or class 2? Testing: Given x=[5]. Heavy computing load: C11=[[5]-[6]] = 12+12=2=c11, C2=[6]-[1] +12 C22= 57 - 2]= 4+72 C12 = [5] - [6] = |2=1 C 23 [3]-[1] =5+7 C13 | [5] - [6] | = 1 Find the smallest of Cij: C128 C3=1 Answer: Class 1 Problem: If you have 100000 feature vector. If and the vector length is high!

How a vector?

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