$(\chi^{(1)}, t_1) (\chi^{(2)}, t_2) \cdots (\chi^{(n)}, t_n)$ $X = (\chi_1, \chi_2, \dots, \chi_d)$ b) y = w, p, (x) + w2 p(x) + um pm(x) + b y is linear into (matured features) but not in x SVM 2, x_2 ---- x_d $k(x^{(j)})$ (i) (j) 2 $-\frac{1}{2}$ (i) (j) 2 $-\frac{1}{2}$ (i) (i)\$ \$2 --- Om you may not know Using SVMs with a kernel -) each vector Is a support & vector =) overfit In SVMe, we fix our features

DL -) We get a ton of features

-) we dunno how many are appropriate

Problem is, wichitecture is mostly trial & Crion