Support vector classifiens, Suppose the classes are not separable directly. Hay The deviation of the maximum margin clamifier will be a lot, which decreases the subsestness. so use need to choose soft-margin classifier. where me have a certain allowance of error that occurs. Now the support vectors are given a range of tolerance. now the equation changes naximize M βο, βι, β2, ... β n ει, ελε3 - - En Subject to $\sum_{j=1}^{p} \beta_{j}^{2} = 1$, BPXiP) >, M (1. Ei), y: (Po+ P, X: 1+ B2X 22 1 €; >, 0 5 €; € c. C is the non-regative turing farameter. M is the width of the margin, but now slack variables are added.

(for, for, to ...)