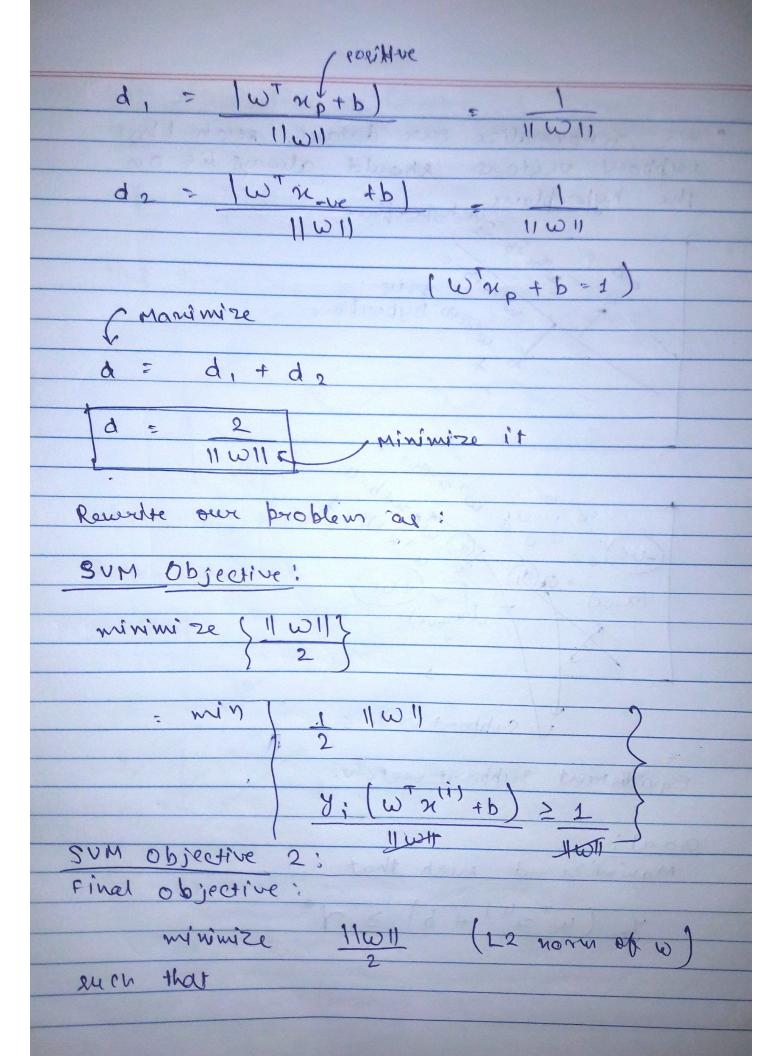


renormalize our dataset such that supposet vectore should always lie on ve hyper plane was stue 1/2x +ve) Supposet vectory. Equidierant support recrow. God: Manimize d such that · y. (w 20) + b



```
Such that
  ₩; € ( ... w )
    ) 4: (w x(i) +b) >
WOW
     IIWII
               = WW
  7 www
              = W
  i. for making derivative calculation
    caly
 we will find
          1- 11W112
  m'n
                y; (w'n(i) +b) 2
 T. 2
 V; E (1 ... M
  Final SVM Objective (comen oblimitation problem
 This is comen with linear construction.
can be solved being:
(a) Quadravice golver
(b) Lagrangian duality
```

