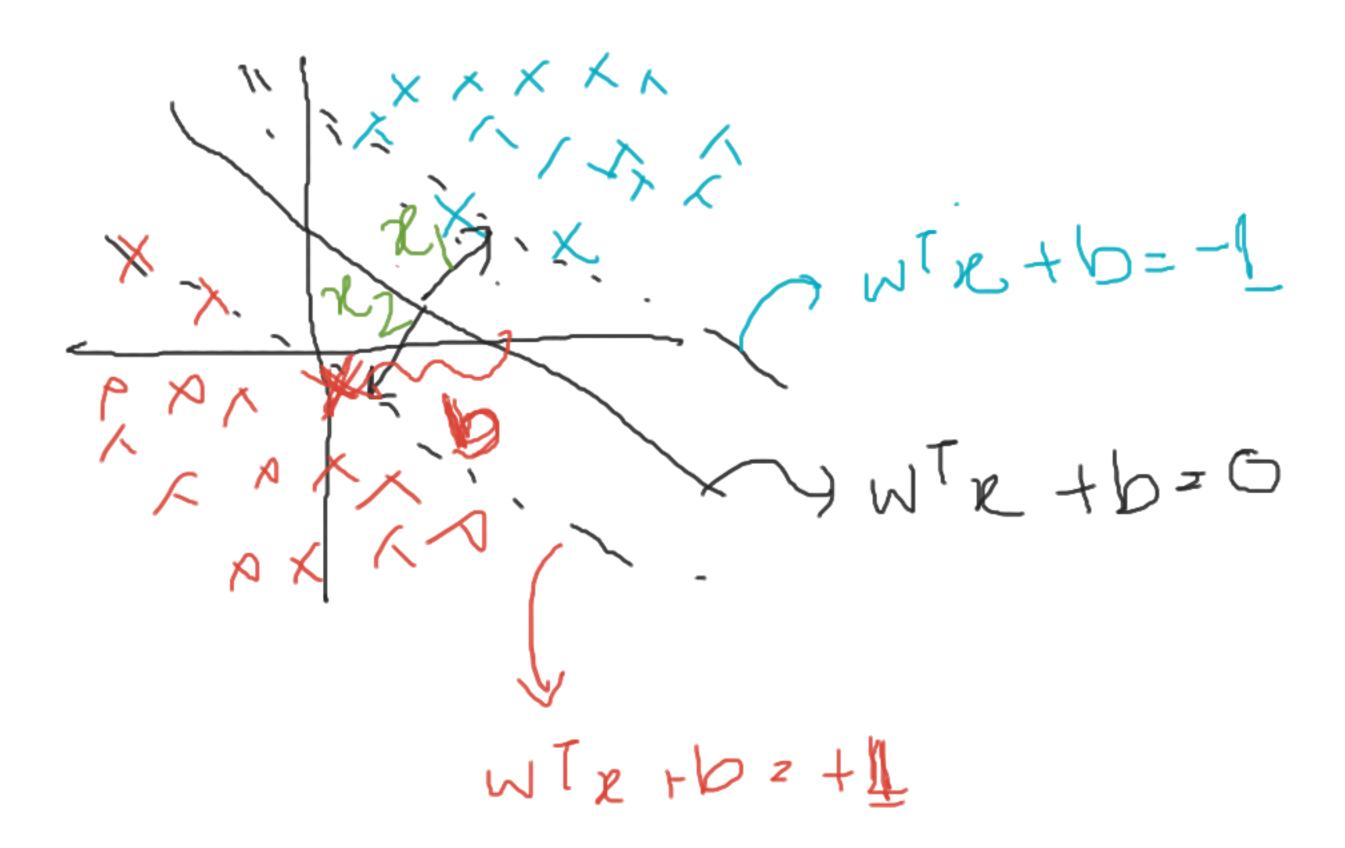
Support vectore Machine Money or Supposer but we choose this because

Our main aim is to marinise Dmarginal distance Noter The hypereplane with more moregin best hyperplane. The previous examples were linearly Sepanable But thuse may be non-linear Separabl

To solue Trievre separable dates use use Syra Keurels. 6 convert 2D + 3D

SVM maths intuition MX XC414) Egn becomes -- [-1] [-40]
2XX 2 H -1 +VC valuel Any point in med below line, it will always be +ve

1-or about point = [-1] [4 4] Always -vc about 17re 2-4=n-vei) - For Simplification 1ve +1 -ve +1



$$W^{T}(x_1-x_2)^{2}-2$$

Marinize this

Updale w", b" such that we maximize 2 Will Such that of the own that -1, WTR+b<-1 YEX WTIR? + biz >1 -> Okay

 $(N^*, D^*) = \min \frac{||M||}{2} + C \sum_{i=1}^{\infty} \sum_{i=1}^{\infty} vun$ How many can consider