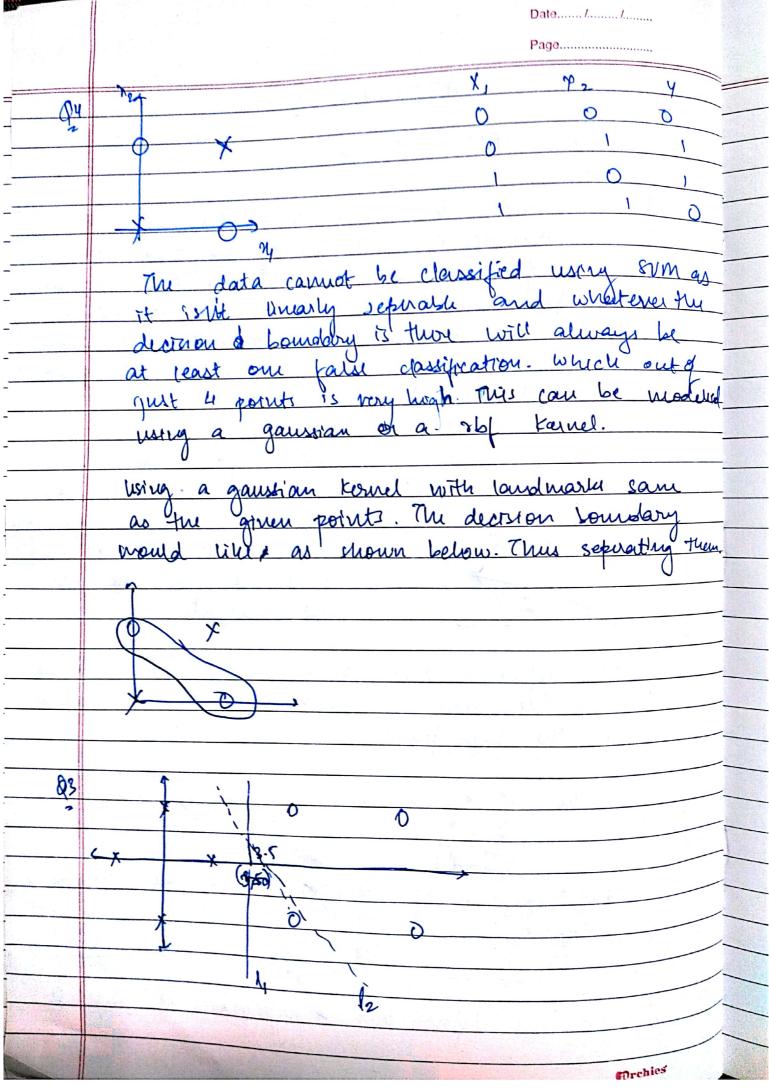
	Page
	ASSIGNMENT-2
<u> </u>	$\frac{\text{min } 1  6 ^2}{2} + C_{x} = \frac{m}{2}$
	The parameter C takes care of overfitting larger halms of C train the classifier such that it how not false predictions thus reducing the manger. However this can lead to overfitting two by taking smaller values of C we can reduce the effect of overfitting.
02	lænsidving thur are only two points.  Now, if we have just two  data points, then the hyper plane  that would be prodicted would  be equidostant from the each  of these data points.
	To define a phypu plane we ned one point- on the plane 4 the equation of the normal to the hyper plane.
	The egh of normal 13 given by,  15-21  the egration of the point on the plane is
	the egration of the point on the plane is given lan  (M11 + M21 + M12 + X22, Min + M2n)  : We can define our be hyporplane as $\hat{N}-p=0$
	©rchies



The decreion boundary is given by the live is

N= 3.5.

This is gives the max margin possible.

When we remove the data point (5,-2) we would get a sp slanted classifier as shown by the curre is

Max margin 2 32, 22 2 13