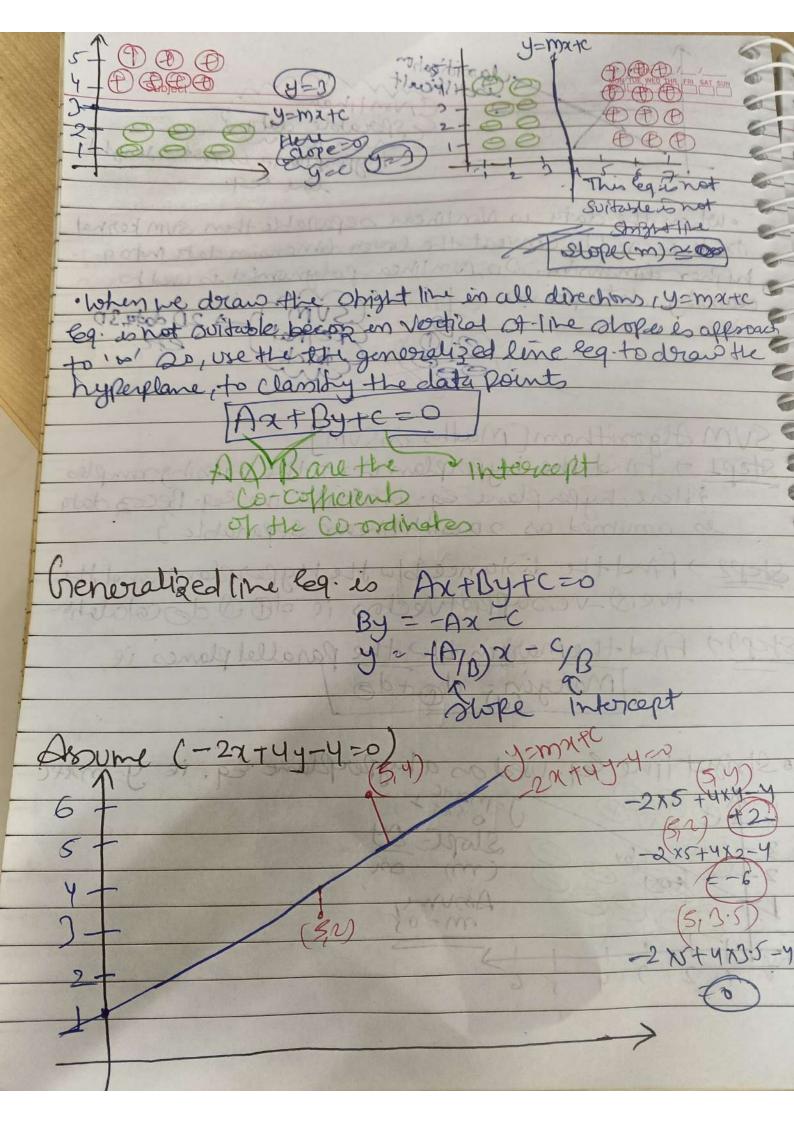
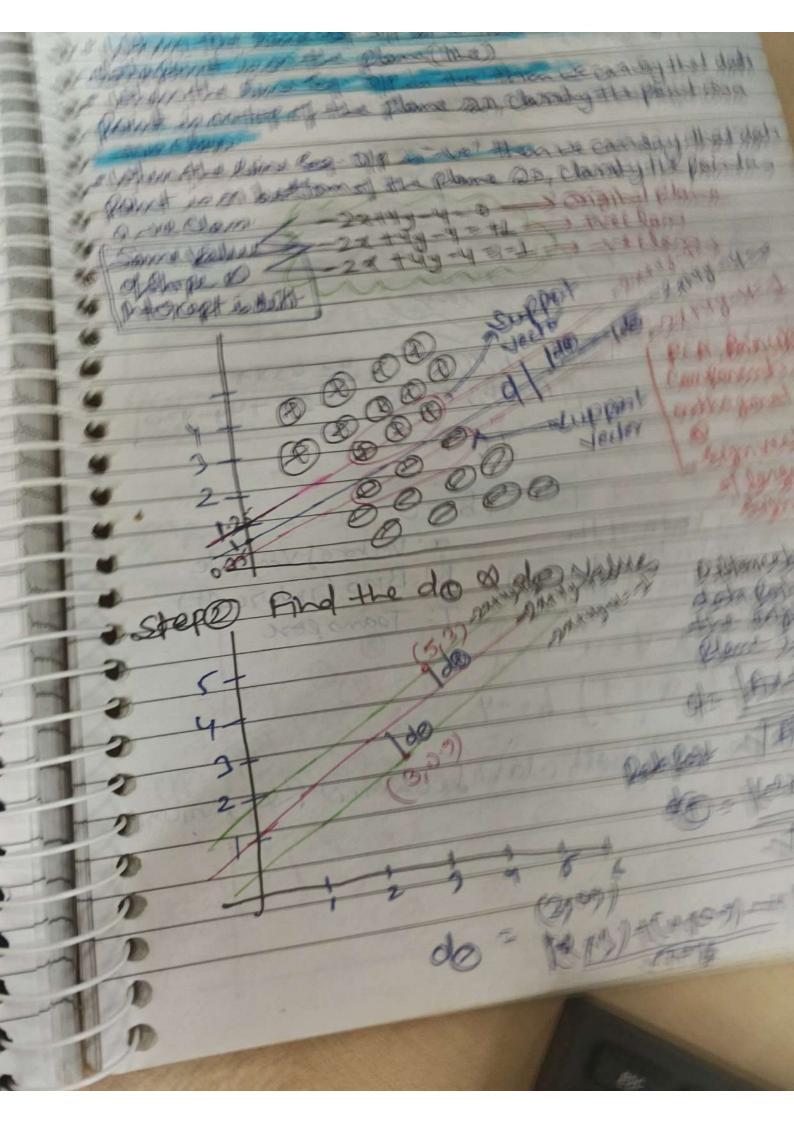
accurrency by speating mu SUM is Expons Used to clamidy the data points labilitation broblems defendent Navible memory Pervised fearming Wathemostical dimetros malerales Variable Of to Cotegonical value ple bypontion with more

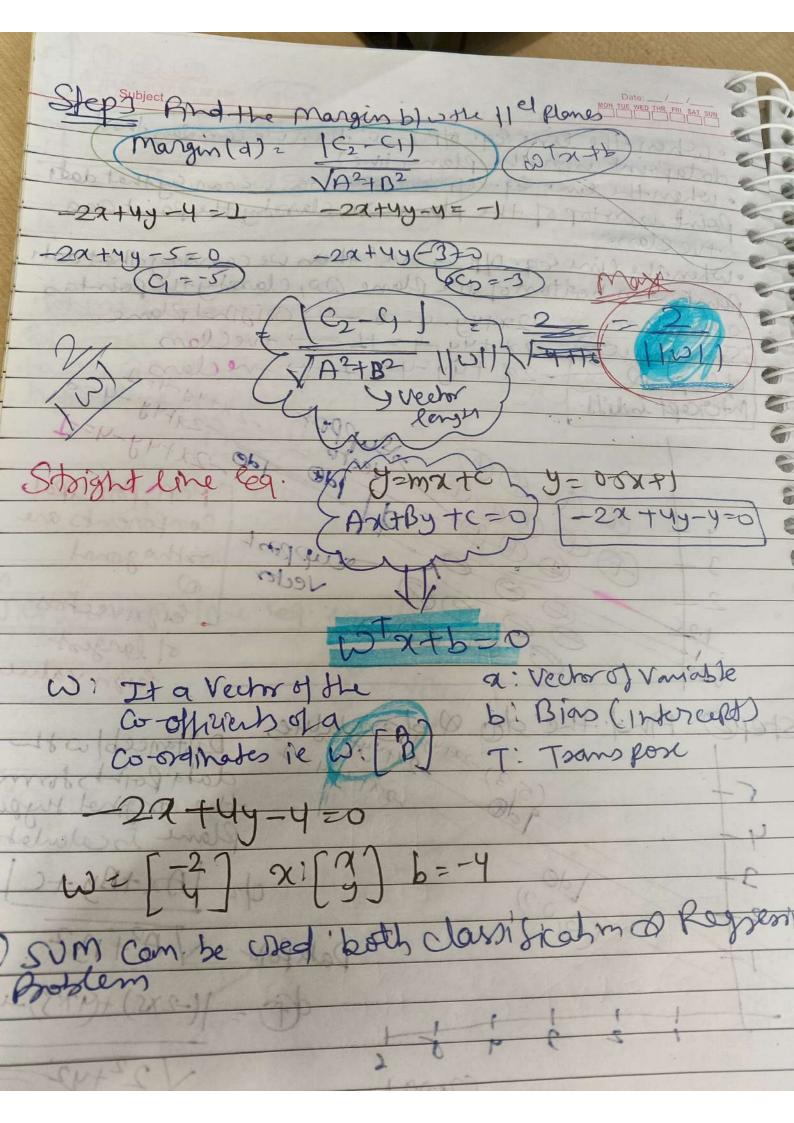
In the logistic Regression data founts classified on the single hype plane (single object ine) Occuracy is cons (y-marc) 1000 y-m 5) To handle the above inve, improvement is required in the legistic Regionim classifier called sum classifier 6) In sum classifier, two farellel planes are created by Connecting the tre points & - ve points respectiv Worto original huy per plane & D To which the point the parallel plane is movil through points are called as the Support vectors of Similarly, to which the points 11el planes is marky of the plan. points are called as the support rectors of plane Apport vectors may be ample data point (or) data Points in vatte Ploto Helor min prediction an clarabed

Goal of sum is "Maximize the mangin (d)" to improve. Dran Margin (d) = de tdo When we Maintain the Man Margin then Min prediction one les: Mores become a generalized model (corod model) it, CoroBias Of low Variance atdo sper Plans are Oreated later cal the margh of Each ryper Plane Wing support vectors. - Select the hyperplanes to make the Bredichon which having the maximum margin (d). Ignore the semain leg. If did 2 w.r. town brample diagram fix fort hyperplane of semove the 2nd hyperplane

classification Subject indisticult Chontinea esporable data Hyperplane is not a shight the leg · When the data is Nonlinear separable then sum kernel is used to convert the larer dimension data into a higher dimension. Do, Northean polynomial is used to clamity data points 20 dota 30 4 SUM Algoritham [Mouths in SUM' And the hyperplan with the painty samples & Mere, hyper plane Eq. is object like eq. Recog dos assumed as 20 with thear separable? Find the distance blu the type r plane and to tred-resupport rectors le do de de colote Frd the margin blu the parallel planes is marging do+do at line leg. Used on a hyperplane leg. ie y Slope Dy DON







Subject 4 Posta Points STA+67,0 DTA16=41 1272+b=0 Jato = Binary Clan Bedichin 20 Claro label T IF WTA+b>0 16° 2017 46 50 Assume that training date set aritain Hamples with bost 2 Samples as the class of next 2 samples as -ve class. Bedichon Model y: (Watb) 7,1 1st point STATE = Stato 1 1x +1 Slackable LOTATO O year 5/246:1

