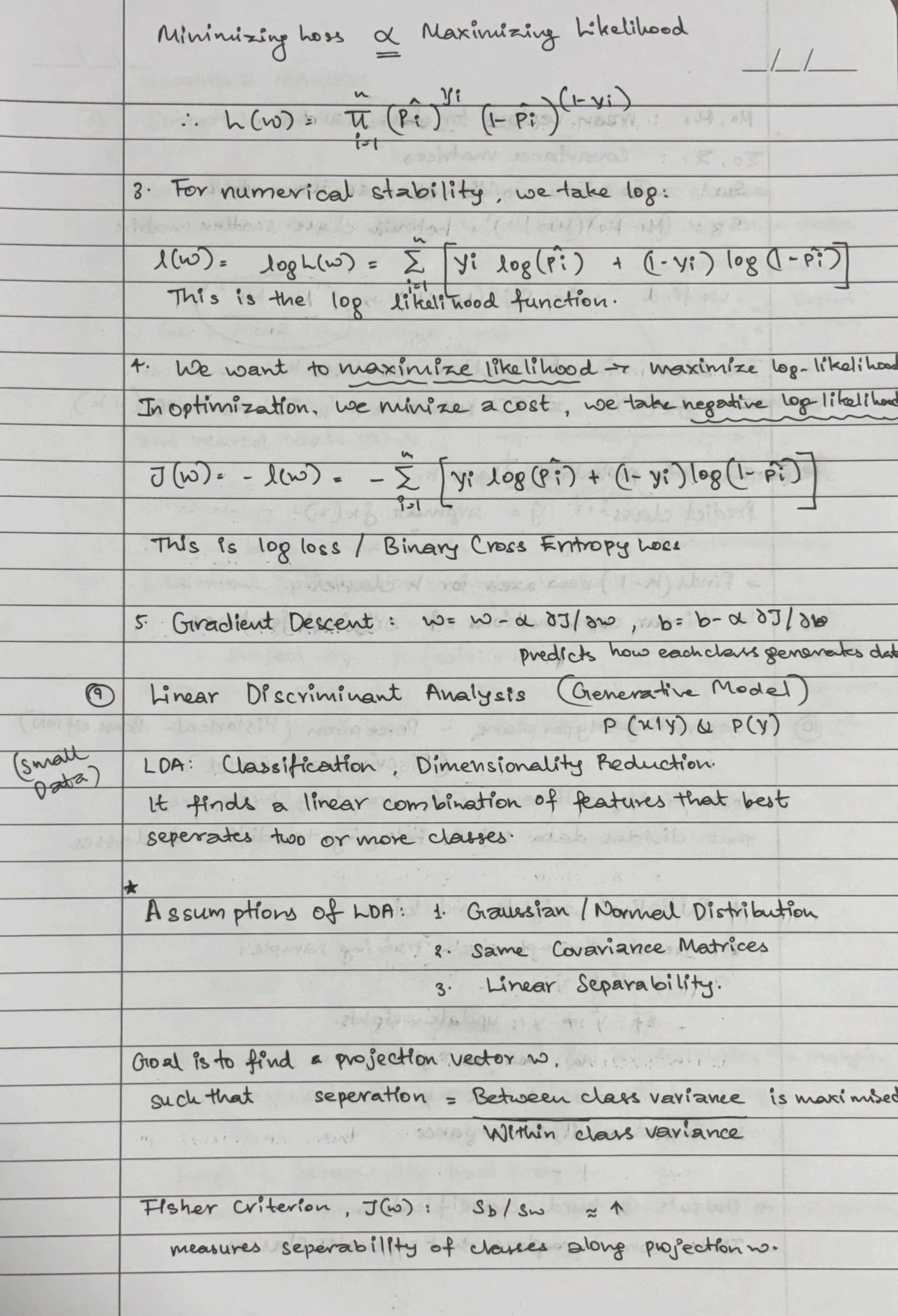
1=1



Mo, M1: Mean vectors for class 0 and 1 Zo, Zi: Covariance matrices Sw: Zo+ Zi : within clas scattermatric SB: (M1-40) (M1-40) : between class scatter modrine 19 - 11 3/91: (: A/-1). + (:19) 901 3/4 & = (C4) 1001 = (C4) we find w*= Sw' (m1-M0) -> M1-M02) cu 2 ... The discriminant function for class k, SK(x)= xT Z-1 MK -1/2 MTK Z-1 MK + 108 (TK) The prior probability claus k. Predict class= y= argunax gr(x) -> finds (k-1) new axes for k classes. La Linear combinations of original features. softenense & strategistes and stalland to the training to the stall the stal (14 poly of the season of stay land then the street of the many of the season of the s Seperating Hyperplane ~ Perceptron (Historical- Base of NN) (Discriminative Model) Goal: Finding a linear decision boundary (hyperplane) that divides data points belonging to different classes. 1. Instialise weights and bias 2. Iterate though each training sample: - Predict v _ If y = y : update weights w: w- anyiri bed with the service of the state of the best of the b 3. Repeat until convergance. The state of the s

-> Outputs a hard classification

-> Finds some hyperplane that seperates classes.