(d) methods: For NB: We can use Either MLE or MAP. Charle parameters W= KNO. ... Whis to maximuse Conditional likelihood of training data. corted MCLE For LR; Since there is no closed form solution to maximizing liw Details are we use the gradient ascent for the following 2. a) NB is classed a generative classifier, because we can view the distribution P(X/T) as describing how to generate random instances X conditioned on the target attribute Y. In LR is referred to as a discriminative classifier because he can view the distribution PCY X) as directly discriminating the value of the target value Y for any given instance X. Linear betision Boundary e decide the shape of the contour. (d) of -1 demethods to do MLE Date = argmax P1010) = arg max I P(Yila) Then take derivative and set to O then we get BALE. CMAP = arg max P (0/D) = ary max P(D/6) Pro) Then tobe deminative and set it to D. then WE get DWAP For LR; we solved for LR perameters with mill Sw) = 1-9 \$ P (y'i) =y \ X(1) = X; W) Charles Since there is no closed form Solution to maximizing la we use gradient ascent -

W= Qua. Wm > 15 The Parameter

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