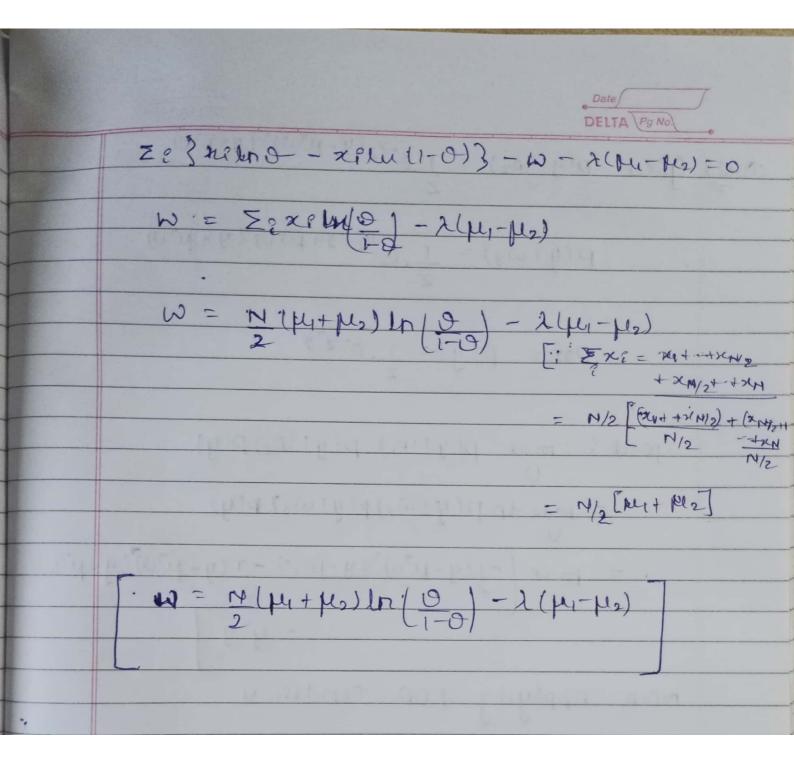


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Date DELTA Pg No.
pca worger = 1 0 metosx 0 1
Ques 2 x, end x2 care given dootes toathles
$y_1 = w^T x_1$ $y_2 = w^T x_2$
y = [y, y ₂] 6 30,13 ^m
$P(y 0) = \pi^{N} O^{y} \varepsilon (1-0)^{1-y} \varepsilon$
Inp(419) = Eo yolno + (1-40) (1-10)
$= \sum_{i} \omega^{T} x_{i} dn \theta + (1 - \omega^{T} x_{i}) dn (1 - \theta)$ $= \sum_{i} \omega^{T} x_{i} dn \theta + (1 - \omega^{T} x_{i}) dn (1 - \theta)$ $= \sum_{i} \omega^{T} x_{i} dn \theta + (1 - \omega^{T} x_{i}) dn (1 - \theta)$ $= \sum_{i} \omega^{T} x_{i} dn \theta + (1 - \omega^{T} x_{i}) dn (1 - \theta)$
Priors ou W)
$\frac{p(w) \sim e^{-\omega^{T} \omega/2}}{por MAP}$
tooking persucurve of chouse [: w] $\mu_1 = \omega^{\dagger} \mu_2$]
tæring persucurie of chouse E. Wife = W Fis



Date DELTA Pg No
Ques 3 Greu ply/102) = 10-42(4-420) [4-40)
$p(y_1 w_3) = 1 e^{-1/2(y+\mu_1 v_3)(y+\mu_1 v_3)}$
Posos · p(y) = 1.0-yTy
doen; wax blalor) blalor) bla)
= max . In p(y1w2) p(y1w3) p(y)
= to ax -1(y-µ\u)\u)\u)\u-\u\u)\u-\u\u)\u\u+\u\u)\u\u+\u\u)\\\\\\\\
NOW, Applying FOR Conditiony
max UTSBO and "UTU = I
mux (y-ptv) (y-ptv) - (y+petv) (y+ qtv) - yty + vtspv - 2(vtspv-1)
= max'UT(SB-NHT)U-2(UTSWU-1)
Telke Derbuchtus of cabous $\frac{\partial F(U)}{\partial U} = 0$ $\frac{\partial F(U)}{\partial U} = \frac{\partial F(U)}{\partial U} = \partial F$