COLTIG Maeture reening Sep 7,2021

Lost (lass-GDA: Gaussian Discontinument Analysis

William Discontinument Analysis 4 8 4, yw) ; B (y your Bernard of) O 24) JUJO ~ N(M,E) D = (p, Mo, 20, M1, 22) 2 N(4,02) $P(x) = \frac{1}{2\pi 6^{2}} \frac{1}{2^{2}} \frac{1}{2$

$$\frac{1}{20} = \frac{1}{12} \frac{1}{12$$

(P(n) y=1; 0) P1y=1; P17=1/4 B) = 1 P(x17=1;0) P17=1;0) + P(X) = 0(0) P1 y=0(0) P(x) 7=0; 0) P17=0; 0) P(x) y=1; A) P1y=150) Deusim Boundary P1y=11xi0) = 1/2 => A=1=0 20+21 Can 1:-20 = 29 Card 2: P(x/y=0,0) P/y=0,0) P(n) y=1;0) P(y=1;0) e (2-40) - 20-4(x-40) . (1-6)

 $\frac{1}{(211)^{1/2}}|2||1|2$ = $\frac{(2-41)^{7}}{2}(2-41)}$ - (ϕ) log[[2-4].121/12]] C $= \frac{1}{2} (x - u_0)^{T} = \frac{1}{2} (x - u_0)$ $= \frac{1}{2} (x - u_0)^{T} = \frac{1}{2} (x - u_0)$ $= \frac{1}{2} \left[(x - M_1)^{T} z_1^{-1} (x - M_2) - (x - M_0)^{T} z_1^{-1} (x - M_0) \right]$ + C + C $- (x - M_0)^{T} z_1^{-1} (x - M_0)$ + C $- (x - M_0)^{T} z_1^{-1} (x - M_0)$ $- (x - M_0)^{T} z_1^{-1} (x - M_0)$ = \frac{1}{2} \left[\times T \frac{1}{21} \times - 2 41 \frac{1}{21} \times + 4, \frac{1}{22} \frac{1}{21} \times \frac{1}{22} \frac{1 - (xT25-12 - 2 WT25-12+WZ5-10) 1. Aline is a quelochic exponsion

Boundary, =) At deusim 69 A = 0 => & the separation is quadrate in general for GDA band would 20= -1 2 (h1-h0) 2-1 x -1 2 -4, T 2-1 4/2 + WT 2-1 A/6) = - ((M, -40) 72 12 2 -1[4, T 2-1 m2 + 45-2-1 mo] Decisim Boundony $-\mathbf{0}^{\mathsf{T}}\mathbf{x}$ Ply=1) 21,0)= -/

) tender the assurption of identical consoner values L) O Decision Boundary 15 lores of four of Ply=1/7;0) = 1/1+e-0Th

Baistic offithe GAA > Logistic diesism Bounday D Which would wake stronger crossephus 7 biDA about the dock? which modif is weether likely for o real public, which will be your would of cloicest Horianu (ourfit) Naire Bayer: s Generative Model 4 Induperelice of altributes) (60)

x1- x1/2 :-