M(E > Ref.

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M(E) Ref.

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(charf-colon), histor # Signald function: g(E)= 1/4== ; g(E) 1/4== . Interpretation of & (h. (x)): Estimated probability that yes on input x For some x so g(h, x)) = 0.7 = 30% chang of human being matigrant 0.3 { (h. (x)) = p(y=4 | X=x; 0) 1- {(h. (x)) = 1 - p(y=1) x - x; 0) = p(y=0) x - x; 0) = 0.3 * Devicen boundary g(0TX) = { 1 0TX 30 (hgs) | Millional Milliona $\begin{cases} \left(\theta_{1}^{T} \times + \theta_{1}^{T} \times^{2} \right) \cdot \theta \left(\left[\theta_{1} \theta_{2} \right]_{x_{1}}^{x_{2}} \right) = \begin{cases} 1 & \theta_{1}^{T} \times + \theta_{1}^{T} \times^{2} & 30 \\ 0 & \theta_{1}^{T} \times + \theta_{1}^{T} \times^{2} & 40 \end{cases}$ $\begin{cases} \left(\theta_{1}^{T} \times + \theta_{1}^{T} \times^{2} \right) \cdot \theta \left(\left[\theta_{1} \theta_{2} \right]_{x_{1}}^{x_{2}} \right) + \left[\theta_{2} \theta_{1} \right]_{x_{1}}^{x_{2}} \right) = \begin{cases} 1 & \theta_{1}^{T} \times + \theta_{1}^{T} \times^{2} & 30 \\ 0 & \theta_{1}^{T} \times + \theta_{1}^{T} \times^{2} & 40 \end{cases}$ $\begin{cases} \left(\theta_{1}^{T} \times + \theta_{1}^{T} \times^{2} \right) \cdot \theta \left(\left[\theta_{1} \theta_{2} \right]_{x_{1}}^{x_{2}} \right) + \left[\theta_{2} \theta_{1} \right]_{x_{1}}^{x_{2}} \right) = \begin{cases} 1 & \theta_{1}^{T} \times + \theta_{1}^{T} \times^{2} & 30 \end{cases}$ $\begin{cases} \left(\theta_{1}^{T} \times + \theta_{1}^{T} \times^{2} \right) \cdot \theta \left(\left[\theta_{1} \theta_{2} \right]_{x_{1}}^{x_{2}} \right) + \left[\theta_{2} \theta_{1} \right]_{x_{1}}^{x_{2}} \right) = \begin{cases} 1 & \theta_{1}^{T} \times + \theta_{1}^{T} \times^{2} & 30 \end{cases}$ $\begin{cases} \left(\theta_{1}^{T} \times + \theta_{1}^{T} \times^{2} \right) \cdot \theta \left(\left[\theta_{1} \theta_{2} \right]_{x_{1}}^{x_{2}} \right) + \left[\theta_{2} \theta_{1} \right]_{x_{1}}^{x_{2}} \right) = \begin{cases} 1 & \theta_{1}^{T} \times + \theta_{1}^{T} \times^{2} & 30 \end{cases}$ $\begin{cases} \left(\theta_{1}^{T} \times + \theta_{1}^{T} \times^{2} \right) \cdot \theta \left(\left[\theta_{1} \theta_{2} \right]_{x_{1}}^{x_{2}} \right) + \left[\theta_{2}^{T} \times + \theta_{1}^{T} \times^{2} & 30 \end{cases}$ $\begin{cases} \left(\theta_{1}^{T} \times + \theta_{1}^{T} \times^{2} \right) \cdot \theta \left(\left[\theta_{1}^{T} \times + \theta_{1}^{T} \times + \theta_{2}^{T} \times^{2} & 30 \end{cases} \right) \right]$ * Non. liver de ision boundary * Logistic repution model - by(((h, e)) - by(n. (h, e)) 6 wen y ∈ {0,1}, Bernulli: Pr(y (×; 0) = g(h, α)) (1-g(h, α))) 1-8 $|T_{\frac{1}{2}}|_{\frac{1}{2}} = \frac{1}{2} |(h_{\frac{1}{2}} \times h_{\frac{1}{2}})|^{\frac{1}{2}} (h_{\frac{1}{2}} \times h_{\frac{$ 2J(0) = 1 & (1-yi) (1-1(ho(2))) (1-1(ho(2))) (1-1(ho(2))) + (yi) -1 ((h, (2))) (h, (2)) (h, (2)) x(1) = 1 (1- 1) (((h, (2)) - (yi) (1- 1) (1- 1)) x(1) = $\underline{\Lambda} \stackrel{m}{\leq} \left[\left\{ \left(h_{\bullet}(x^{0}) \right) - y^{i} \right\} \times^{10} \right] \propto$ Some as linear represent # Playing with cart function deficition top

composation of monotoner functions (speed

min J(0) = 1 / TJ(00) = 0 - 50. Lineal

St. | de+1=An- or TJ(0u) =0 J(0u+1) < J(0u)

Shepuit down | step file -> Line search | learning late