M(E > Ref.

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(charf-colon), histor # Signald function: g(E)= 1/4== ; g(E) 1/4== . Interpretation of g(h. (x)): Estimated probability that yel on input x { (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 $\begin{cases} \left(\theta_{1}^{T} \times + \theta_{1}^{T} \times^{2} \right) \cdot \theta \left(\left[\theta_{1} \theta_{2} \right]_{x_{1}}^{x_{2}} \right) + \left[\theta_{2} \theta_{1} \right]_{x_{2}}^{x_{2}} \right) = \begin{cases} 1 & \theta_{1}^{T} \times + \theta_{1}^{T} \times^{2} & 0 \\ 0 & \theta_{1}^{T} \times + \theta_{1}^{T} \times^{2} & 0 \end{cases}$ c. (extriction and 0* Non. liver de ision boundary * Logistic repution model 6 wen y ∈ {0,1}, Bernulli: Pr(y (×; 0) = g(h, α)) (1-g(h, α))) 1-8 $| T_{\underline{a}\underline{b}} | \underline{b}_{\underline{a}} | \underline{b}_{\underline{a}}$ 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 + (2))) 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

$$\frac{III \cdot postess}{\sum_{\substack{\text{constates} \\ \text{constates} \\ \text{constates}$$

i How is the cost?

* Practica: Extend logistic repression (clossification) to multi-classification

· Newal model : Logistic un