Yi(07x;+b)-170. Optimisation objective. Slides 28-30 $\frac{J}{2} = \frac{d}{2} \theta^{2} - \sum_{i=1}^{n} \alpha_{i} \left(y_{i} \left(\theta^{T} \chi_{i} + b \right) - 1 \right)$ (シカン)= キュ・カ・キ=メ $\frac{1}{2} \int_{i=1}^{d} \frac{\partial^{2}}{\partial i} = \frac{\pi}{i} a_{i} (y_{i}(\Theta^{T}X_{i}+b) + \prod_{i=1}^{d} a_{i})$ 2 20: - \(\frac{1}{i=1} \) \(\frac{1}{i=1} \ =) want to find the critical pt. D; b .= separate / unlike Great logistic regression $\frac{\partial \mathcal{F}}{\partial \theta} = \frac{1}{2} \cdot 3 \cdot \theta - \frac{5}{1} \cdot a_i y_i \eta_i = 0$ (by being the critical pt) $\frac{\partial \mathcal{T}}{\partial b} = \frac{\nabla}{\partial a} = \frac{\partial a}{\partial a} = \frac{\partial a}{\partial b} = \frac{\partial a}{\partial b} = \frac{\partial a}{\partial a} =$ $-(-\sum_{i=1}^{n} a_i y_i) = 0 \Rightarrow \sum_{i=1}^{n} a_i y_i = 0.$ J= 1 T aigini-aigini - J Laigini, aigini - O. + Jai 2. i=1j=1 sweasuring the similarity between vaes. h(r) = y = 0 3+6 incoming=(x,y), know(xi,yi)....(xxx, yirul) $h(x) = (y) = \theta^{T} \pi + b. \Rightarrow h(x) = \text{Sign}(\theta^{T} \pi + b).$ = $Sign(\sum_{i=1}^{SV} a_i y_i n_i \cdot \overline{a}_i + b)$ $b = \frac{1}{15V1} \frac{5V}{5V} \left(\frac{y_i - \sum_{i=1}^{SV} a_i y_i n_i \cdot \overline{x}}{i} \right)$



