Ry 0 = (X'X) -XT

1.(1)
$$|\nabla u \bar{u}(w)| = 2\chi^{\bar{u}}(\chi_{w-y})$$

(2) 1/3 x(i), y(i)(DGA EER X ER X A NXd TAT(0)=2 || Xpg-H/F $= \frac{1}{2} tr((XVD-t)^T(X\theta + 1))$ Total = XTX W-XTY,

年校内显优新展起 V~J(n)>0 TO: EXTXW=9 XTY

W= #(XTX) Ty XTY 50 W- 100) VWJ(W) $= W - (2X^TX)^{-1}2X^T(Xw-y)$ =W-(XTX)-(XTX)~ +(XTX)+XTy =(xTX)-XTy,为是供的

(x) - [(x) ([+" (x) 11 Xw-y //2+/11W/, Ti(w) (Xwy) (Xwy) + Allw/, = WXIXW -2yIXw+yTy+Allwll, = n ||w||2+ ||y||2 -2 y x w+ x ||w||, (= ||y||2+ |= (nw2+ x ||w|) | -2 y x x ; w;) 2/wi-1-2y1x*i (wiro) 2 Films Q) T2(w) 专位的原建海,当在当得导在1W:70 地门直正, = n(|w|); +//|w|); +1/14/12-24/xm buis, Will 2 2y xi + 1 dis (m) = 2 (n+x) Wi - 2 y x;

= 0 0 +,

wi = y x;

n+x $\mathcal{F}_{7}: \begin{pmatrix} 2y^{7}x_{x_{1}} - \lambda \leq 0 \\ 2y^{7}x_{x_{1}} + \lambda \geq 0 \end{pmatrix}$) - 子 S Y Xx; S 和 例 のでない)=2(n+/) /のりを注。 (京境(4方 リス*)=0 也上更易: "山"一个《YIXx; Cf 编辑的。 在在Mino 新原为,范园更大

$$\nabla \log (h_0(x^{(i)})) = -h_0(x^{(i)}) \times C(i)$$

$$\nabla \log (h_0(x^{(i)})) = -h_0(x^{(i)}) \times C(i)$$

$$f_{\theta} H(\theta) = \lambda \theta + \sum_{i=1}^{n} w^{(i)} \left(h_{\theta}(x^{(i)}) - y^{(i)} \right) \chi^{(i)}$$

$$f_{\theta} H(\theta) = \lambda I + \sum_{i=1}^{n} w^{(i)} h_{\theta}(x^{(i)}) \left(H_{\theta}(x^{(i)}) \right) \chi^{(i)} \chi^{(i)} \chi^{(i)}$$

2: wai t

[in the train (X,y), (Ao)

4: while True:

5:
$$\nabla L(0) = \lambda \theta + \sum_{i=1}^{\infty} w^{(i)} (\lambda_{\theta}(x^{(i)}) - y^{(i)}) x^{(i)}$$
;

(0; return 10 6)

1. Xtran, Ytran, Xtral, yral = get dota() i=: 1. to θ t tran (X-tran, y-tran, θ) man 3. acc (test (X-tral, y-val, θ)