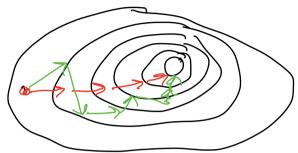
$\nabla \omega L(f, X, \omega) = -\frac{2}{n} \frac{x}{n \times n} (x \omega - y)$

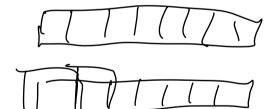


KAP PX1 = KX1

Stechestic: Benneusen 2/2. ne 1 reachagonnes Batch grafient rescent; no nogbologracus renconcero regultro

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Hx+dx)-f(xe)

LARS, Stepwise regression

Perguaruzacyua

$$L(f, \chi, y) \Rightarrow |\chi \omega - \chi|_{2}^{2} + \lambda |\chi|_{K}^{K} \rightarrow min$$

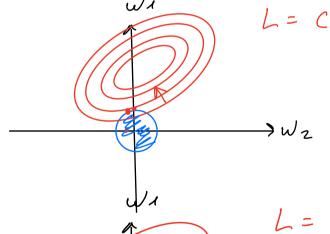
$$L^{2}: |W|_{2}^{2} = W_{1}^{2} + ... + W_{K}^{2}$$

$$L^{1}: |W|_{1}^{2} = |W_{1}| + ... + |W_{2}|$$



L²:
$$(y - \chi \omega) \overline{(y - \chi \omega)} + (\lambda \overline{\omega} \overline{\omega})$$

 $w = (\chi \overline{\chi} + \lambda \overline{\chi})^{-1} \chi^{T} \gamma$



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2) Kurran many y

L= C La

> W2

Elastic Net

Dryme eccor MSE > E(Y)X) 1) Loss MAE - Med(YIX) 2) Mempunco Qd - Kleenmub 1 X MAE, MAPE, Huser, SMAPE MAE: $\frac{1}{2} \frac{1}{2} \frac{1}{3} \frac{1}{3}$, 1 ≥ |y; -64, w>/ -> wil L(f, X, y)= Zhs(y; -< x:, W>), hs(z)= { 5/2z, 1z1=8 S(121-18), 1z1=8

