ECE-GT 6/43

分量, ning量 Minimize MSE with bespect to W n>d equations to solve of vaki 这样地似比最多日本 Implove this running time sufficiently

First: Convexity XXI+CHUXL (if X=U.5 =) mid point) Words: straight line (X, tha) & (X2, then)) should be Integer fealm 字数空间 IRd -> IR for any xixe IRd Opposite of convex: Concave [1] Sinx Neither Concave nor convex Constant Concare out Convex Straight

Assume: function has differentiability/smoothness tangent of for at any point lies Wards: Moth: x1x , fly 3 flos + dtos (y-x) Calor xy 横鳉 Observation If After =0, then f(y) & f(x) for all y => x; s a global minimum of f

⇒×;s ~ global mi 炒炒×上为取小b上

goal: fix x* that minimize fix) Approach: find &, f(wto) < f(w) /2 = Tolitate - WE Wto - Repeat Df(x) points in the direction of maximum change in 十(淡山的旗声) Wk-UT+(Wk) clefines how much I want to move on that direction "Step size" for k= 0,1,2 -- ,T "learning vate terminate after T epochs 公文学生的次数 or when of becomes small

特础