Sagona3

D'Harizen & b magen Ridge-porposeen b many burge. Grabmen eë

 $F(\partial) = ||Y - X \partial ||^2 + \lambda ||\partial ||^2 = (Y - X \partial)(Y - X \partial) + \lambda \partial^T \cdot \partial = Y^T Y - 2 Y^T X \partial +$ + 0 x x X & + \ 0 TO. Hourgen oyency o, you comper on a nununouma.

 $=2\Theta\cdot(X^TX+\lambda I)\theta=>\theta=(X^TX+\lambda I)^{-1}\cdot X^TY.$

Kak not bugune, b ommene om MHK ($\hat{\Theta}=(x^{T}x^{T}.x^{T}y)$, byongennam napomeny $\chi^{T}x$ norm ne nemaem; begb, negospob hymnous runex-napomeny λ , nor normen gosimbar moro, mo $(x^{T}x+\lambda I)$ ne Sygem boponegement, a juguen, bio ropomo.

Desenueue gruy nouka ogenku kosqu-mob memogen 6D u S6D gra mogem Ridge-perpeccum в матр. виде:

GD: $\Theta_{t+1} = \Theta_t - n\nabla F(\Theta) = \Theta_t - n\cdot (x^T\cdot (x_{\Theta_t} - y) + \lambda_{\Theta_t}) = \Theta_t - n\cdot \sum_{k=1}^{\infty} (4x_k(x_k\Theta_t - y_k) + \lambda_{\Theta_t})$

3) Dua MHK chiangajunizazino monino ne maybegunt; agrano que moglino. Traserine amo: Pavenner, une qp-ex nomers b mogene l'ége-perpeccun jobiccion em 110112, а знаким, реногредственно от самих призначев. Но размения призначения призначения веразминь Of MHK nee changajungayur re ot ajapuerona, T.K. The properties of senon.