| 
$$\frac{1}{2}$$
 |  $\frac{1}{2}$  |  $\frac{$ 

$$\begin{cases} \sum_{i=1}^{k} \lambda_{i} y_{i} x_{i} = 0 \\ \sum_{i=1}^{k} \lambda_{i} y_{i} x_{i} = 0 \\ \sum_{i=1}^{k} \lambda_{i} y_{i} = 0 \\ \sum_{i=1}^{k} \lambda_{i} y_$$

 $+ \sum_{i} \lambda_{i} - \sum_{i} \lambda_{i} \lambda_{i} - \sum_{i} \lambda_{i} \lambda_{i} - \sum_{i} \lambda_{i} \lambda_{i} = \sum_{i} \lambda_{i} \lambda_{i} - \sum_{i} \lambda_{i} \lambda_{i} = \sum_{i} \lambda_{i} \lambda_{i} + \sum_{i} \lambda_$ 

= = [a(x;) + y;] (---) marx (0,1-M)  $\frac{1}{2} \|w\|^2 + C \cdot \sum_{i} \xi_{i} \rightarrow w_{i} h_{i} \xi_{i}$ = | | | | | | | + C. \( \sigma \text{marx} \left( 0, 1 - \( \frac{1}{2} \left( \xi m'x; > + \( \right) \right) \) Hinge-Loss.

$$\begin{array}{l}
\oplus \left(\sum_{i} x_{i} + \sum_{j} (x_{i} + \sum_{j} x_{j} + \sum_{j} (x_{i} + \sum_{j} x_{j}) + \sum_{j} (x_{i} + \sum_{j} x_{j} + \sum_{j} (x_{i} + \sum_{j} x_{j}) + \sum_{j} (x_{i} + \sum_{j} x_{j} + \sum_{j} (x_{i} + \sum_{j} x_{j}) + \sum_{j} (x_{i} + \sum_{j} x_{j} + \sum_{j} x_{j} + \sum_{j} x_{j} + \sum_{j} (x_{i} + \sum_{j} x_{j} + \sum_{j} x_{j} + \sum_{j} x_{j} + \sum_{j} (x_{i} + \sum_{j} x_{j} + \sum_{j} x_{j} + \sum_{j} x_{j} + \sum_{j} x_{j} + \sum_{j} (x_{i} + \sum_{j} x_{j} + \sum_{j}$$

(2 x; 2; )(2 x; 2;) -1 (x, 2) (x, 2) (x, 2) (x, 2) (x, 2) - Agpo, eam 1)k(x, 2) = k(2, x) (x, 2) - Agpo, eam 1)k(x, 2) = k(2, x) (x, 2) - Heotp. onp =)

4 vouvernoir l'ordopeu: ( le (x;,x;));,;===neath onto. [Cb-la Agef:] (d>0, Ks, K2-Agpa) 1) K1+K2 -2360 6) link (x, 2) - 29po 3) KT. KJ-2860. 3) d. Kz - Agpo 4) f(x). f(z) - xgpo (f-benjecib.) 5) K(q(x),q(z)) - Agpo K(x,2)= (cx,2>+R), WEIN+ K(x's) = 5 Cm. B < x's> F 1) <x, => - Agpo, T.k (x)=X 2) <4,2>k- Agpo (d-60 2) 3) cm. pm-k. <x,2> - xgpo (no 3) 45 E - 9900 (no 1)

$$E = \frac{1}{5} + 5 \times 5 + 5 = \frac{1}{5} \times \frac{1}{5}$$

= (+,2>. C+,2> + 1 = = (+,2>. C+,2> + 1 =

Toycobo 29po: K(x,2) = exp(-\frac{11x-\frac{1}{2}}{2\frac{2}{2}})

K(x,2) = K(11x-\frac{2}{1}) - PBF

K(x,2) > H- Semontronephoe

(1) 476: 4+1,-,xn - nonopho poyn.

 $G_{i} = \left( exp\left(-\frac{11x_{i}-x_{j}11^{2}}{23^{2}}\right) \right)_{i,j=1}^{N}$  $G_{i} - nebuponeguna + N., Norm 2>0.$  (2) K(x,5) = < 6(x), 6(5) >  $exp(-\frac{|1x-2|^2}{28^2}) = exp(\frac{-|1x||^2 - ||2||^2}{28^2}).$  $\cdot \exp\left(\frac{2x_1 + x_2}{2x_1}\right) =$ 

= exb (- \frac{535}{1856}) \cdot \text{cx155} \cdot \frac{1595}{1856} \cdot \frac{1595}{256} \cdot \frac{1595}{256

= = < (Agg:) Ax=1..., x~ - nonothro body.

gna El vorspoe cootb. Toyccobouy egpy I runeimoin unacend, voropoin Sezonusono poygendet. busopay.

Command Soft - Mourgin

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$$\int_{0}^{2} ||w||^{2} + C \cdot \frac{7}{2} \cdot \frac{7}{2}; \quad$$

)

$$G = \sum_{k=3}^{2} p_{k}(1-p_{k}) \qquad \{k = -\sum_{k=3}^{2} p_{k} \log_{2} p_{k} \}$$

$$P_{k} = \frac{1}{|R|} \sum_{k:(k:,y_{i}) \in R} G(R) \qquad G(R)$$

$$Q = G(R) - \frac{|R|}{|R|} \cdot G(R_{e}) - \frac{|R|}{|R|} \cdot G(R_{v})$$

$$1^2 = \sum_{i=1}^{n} \gamma_i \qquad \forall$$

0=15 rigi = 2 rigi(y: - < w,x;>) =

 $= \sum_{i=1}^{2} y_{i} - \sum_{i=1}^{2} y_{i} y_{i} < w(x_{i}) = \sum_{i=1}^{2} y_{i} - ||w||_{S}$ 

Zw, Ezigixi>

P= 4: -< m'x:>