

[(w) = Lo(w)+1 ||w|] $\nabla E(w) = - \sum_{n=1}^{N} (t_n - W. d(x_n)) d(x_n) + 2 xw$ where I - regulary other payameter. SCD: We don't sequire whole doto set in one go, we update the model parameter of this accessing each datapt. Erwor function for SGD $F_n(w) = \frac{1}{2}(t_n - w'\phi(x_n)) + \frac{1}{2}|w||_2$ 1) Truthlize the pasameter to w'o = 1 2=1 2) mile! -> Select sundom $pt(x_n,y_n)$ -> $w(z) = w^{(2)} + \eta^{(2)} \forall F_n(w^{(2-4)})$ -> 2=2+1 -> 2=2+1 when 2 -> Execution parameter.

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