$\hat{y} = F(x_i, \theta)$  $J = \{(x_i, y_i)\}_{N}$   $L = \{(0, \{(x_i, y_i)\})\}$ Vol. De  $\sim \mathcal{N}(0,1)$   $t_{0} - u_{0} = v_{0} = v_{0} = v_{0}$ 2  $\bar{q} = v_{0} + v_{0} = v$  $\mathbb{D}$   $\mathbb{Q}$   $\sim \mathcal{N}(0,1)$ Q = Q - 2 \ 2 d => 0\* 3 L E => 5 top

Croxaeruree men rpaquens mainte SGD Stochastie gradient descent l loorning rate  $\mathbb{O}_{0} \sim \mathcal{N}(0,1)$ n-batch size D-nogbordopad J poznepa n  $2 = \sqrt{2} (\theta, D)$ Q = Q - 29=> 0\* 3) & < & => 5 top 



