

Optimization Algorithms

Mini-batch gradient descent

Batch vs. mini-batch gradient descent

Vectorization allows you to efficiently compute on m examples.

stop of grabet deal Mini-batch gradient descent veg XIII YIL. Formal peop on X [ts]. $A^{CO} = G^{CO} \left(\frac{2}{CO} \right)$ $A^{CO} = G^{CO} \left(\frac{2}{CO} \right)$ Compute cost $J^{\{\ell\}} = \frac{1}{11770} \stackrel{>}{\underset{i=1}{\stackrel{>}{\sim}}} J(y^{(i)}, y^{(i)}) + \frac{\lambda}{211700} \stackrel{>}{\underset{=}{\sim}} ||W^{(\ell)}||_F^2$ Backprop to compart gradules cont Jeez (vsy (x823, x823)) W:= WTEN - ddw(W), btl) = btl) - ddb(E) "I epoch" poss through training set.