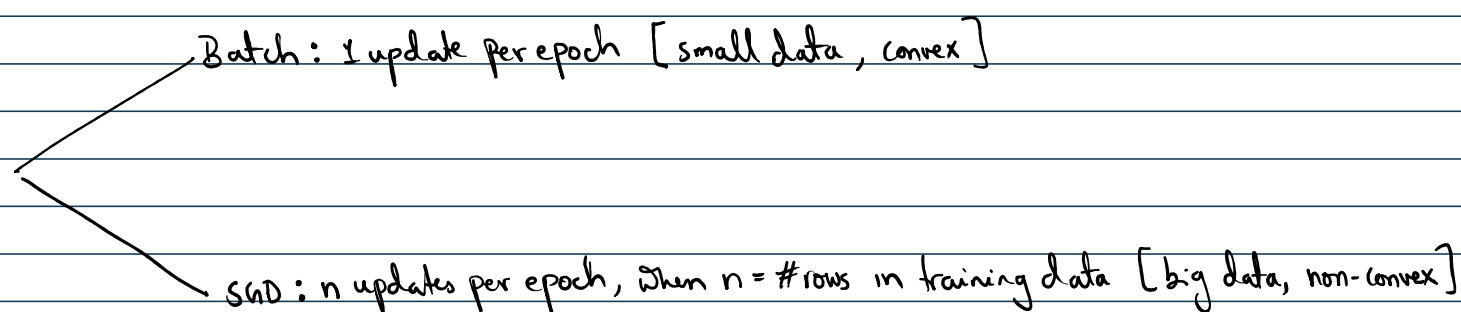


Mini Batch Gradient Descent

Monday 8 April 2024 4:48 PM

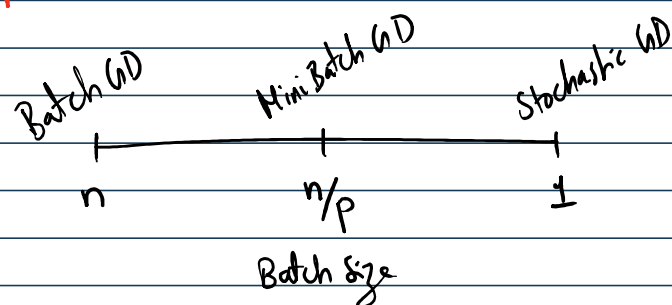
→ The 3 variants of gradient descent differ in the frequency in which they update the coefficients.



→ Mini batch gradient descent → Stochastic nature in the way the batch is chosen, once batch is chosen it acts as batch gradient descent.
↳ group of rows

for each epoch → $\frac{n}{p}$ updates, where $n = \text{total \# rows}$
↳ each update is made after looking at p rows
↳ batch size

1 epoch
10 updates
↳ 100 rows



* Mini Batch GD is a general method which can act as Batch & stochastic GD depending on the chosen parameters.