

Ex: 4:

on-line learning (or) fundamental learning

Batch GD \rightarrow See all data \rightarrow update w_t

Mini-batch SGD \rightarrow See K samples - update

online learning \rightarrow See 1 sample update.

Adv:



$$S \rightarrow w \rightarrow w$$

$$(w) = ?$$

[1 sample
very fast
update]

Disadv:



- learning becomes noisy and lg

task, eg: one sample says more right, other says more left, other say left not balanced.