Batches

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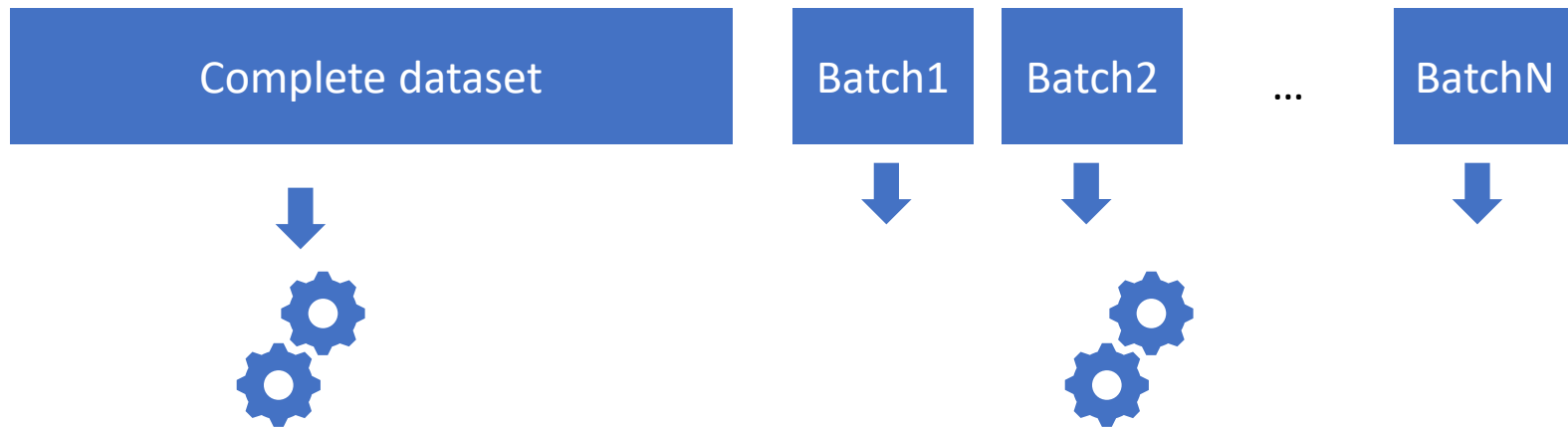
Batches

- Often datasets very large → passing the complete dataset in one step to the model training impossible
- Rather smaller bites provides to be consumed by model - batches

| Complete dataset | Batch1 | Batch2 | ... | BatchN |

Batches

- Batch size number of simultaneous provided datasets provided to model.
- Defines speed of model training and stability of learning process.

Reasons for using smaller batch sizes
- Smaller batch sizes noisier and lower generalization error
- Easier to pass a batch of training data in memory (CPU or GPU)

Typical batch sizes
- $1 - 512$
- Often multiple of two
- Good default: 32