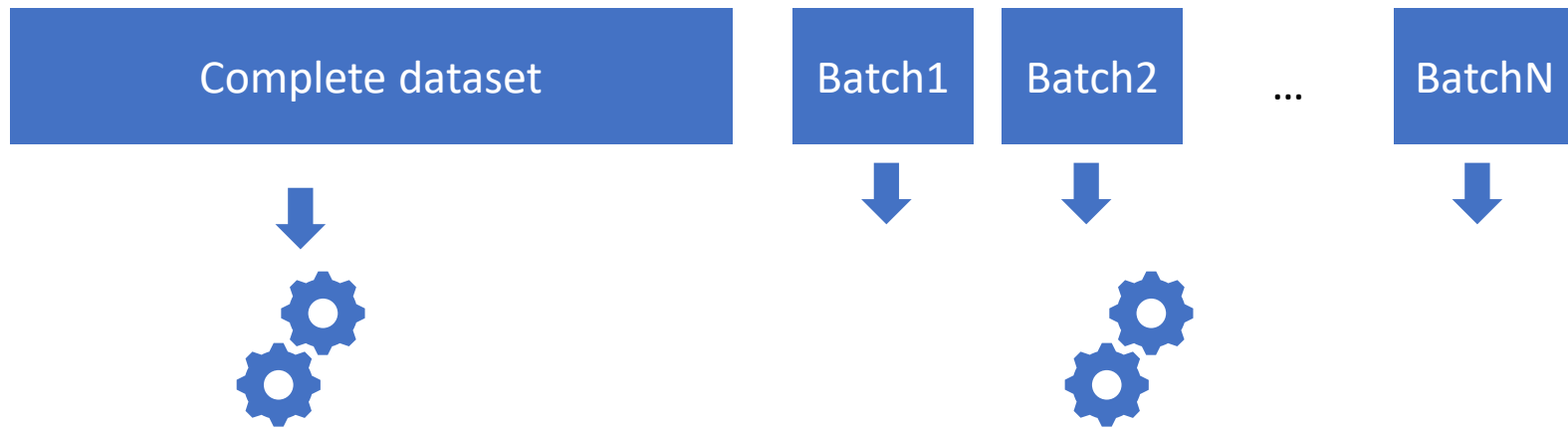


# Batches

# Batches

## Introduction

- 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



# Batches

## Batch Size

- 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