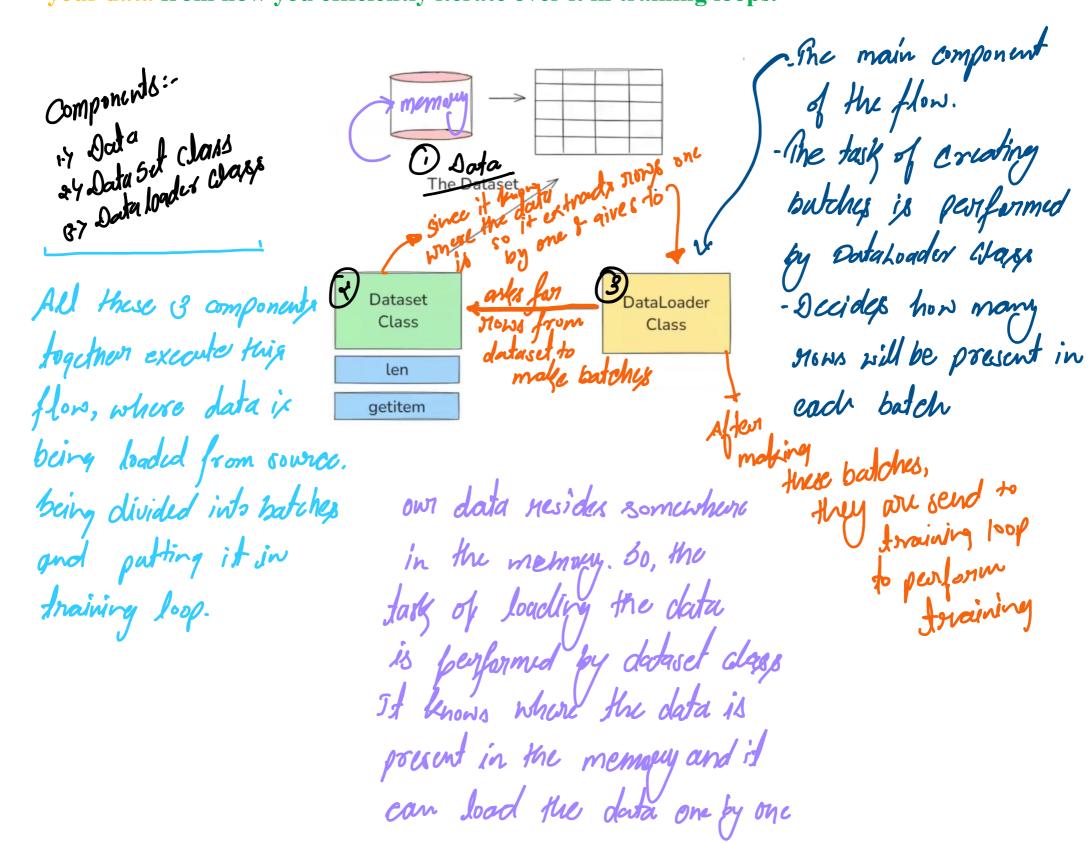
6.1 Dataset & DataLoader CLASS IN PyTorch

03 September 2025 12:14 AM RE AVINASH YADAV

Dataset and DataLoader are core abstractions in PyTorch that decouple how you define your data from how you efficiently iterate over it in training loops.



1. Dataset Class

The Dataset class is essentially a blueprint. When you create a custom Dataset, you decide how data is loaded and returned.

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It defines:

- __init__() which tells how data should be loaded.
- **getitem**__(index) which returns the data (and label) at the given index.

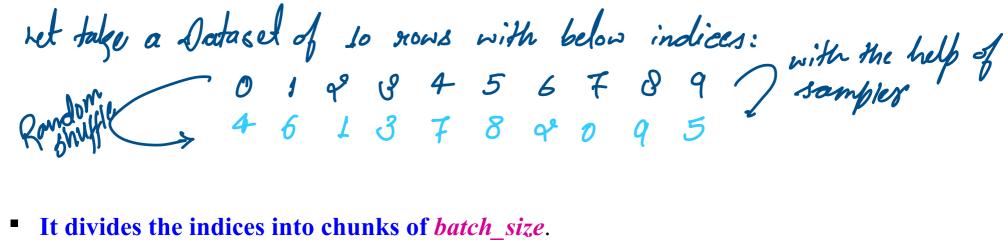
2. DataLoader Class The DataLoader wraps a Dataset and handles batching, shuffling, and parallel loading for

you.

At the start of each epoch, the DataLoader (if shuffle=True) shuffles indices(using a

DataLoader Control Flow:

sampler).



Let the batch. size be of &.

