6.5 NOTE ABOUT Samplers

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In PyTorch, the sampler in the DataLoader *determines the strategy for selecting samples from the dataset during data loading.* It controls how indices of the dataset are drawn for each batch.

Types of Samplers

PyTorch provides several predefined samplers, and you can create custom ones:

1. SequentialSampler:

- * Samples elements sequentially, in the order they appear in the dataset.
- * Sometimes useful in time-series tasks.
- ⇔ Default when shuffle=False.

2. RandomSampler:

- * Samples elements randomly without replacement.
- Default when shuffle=True.

3. Custom Sampler With Custom Logic

for example we have a sample dataset with class label-1 -> 99% of data class label-0 -> 1% of data

so while making the batches, we also want to make sure the same representation 99:1 to reflect in the batches we can utilize the concept of making own own samples.