# Efficient AI with Rust Lab
# Rapid Time Series Datasets Library
# RWTH Aachen University
## Group 1

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# Marius's Part

## Downsampling I

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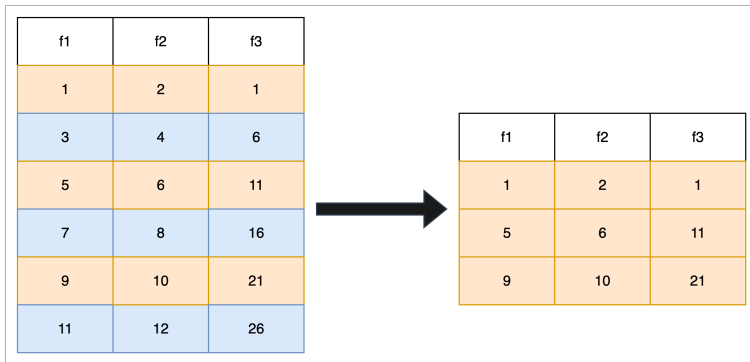**Benefits:**

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**Neccessary parameter when downsampling:**

- Downsampling factor: How many data points to skip

**Example:**

- Downsampling factor of 2: Every second data point is kept as shown in Figure 1

# Downsampling II



Downsampling example with a factor of 2

# Downsampling III

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**Bottleneck of passing the data by reference:**

- ▶ Not possible. A copy is needed.
- ▶ Creating view only possible on contiguous data.
- ▶ Downsampling does not yield a contiguous data structure.

# Kilian's Part