miniML-MB: for each measurement site i separately, and over N mass balance years

(a) Input:

| Meteo Swiss | → | Monthly 2m-temperature (T) |
| | | Monthly total precipitation (P) |

Temporal aggregation

- Annual (n = 2)
- Half-yearly (n = 4)
- Seasonal (n = 8)
- Monthly (n = 24)
- Opt. seasonal (n = 2)

(b) For example, with half-yearly, n = 4:

year	mean T Summer	mean T Winter	sum P Summer	sum P Winter
1961	5	-4	300	550
...	..		...	
2021	3.2	-2.5	250	590

Input $X \in \mathbb{R}^{N \times n} : n \in [2, 24]$

(c)

ML model $\hat{f}_i$

$\hat{y}$: predicted PMB $\in \mathbb{R}^N$