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Preliminaries

Used Datasets - Synthetic

- Binary Classification Problem
- $x_i^j \sim N(0,1)$
- $p(y_i = 1 | x_i) = \frac{1}{1 + \text{logit}(x_i)}$

**Synthetic Dataset
A**

- Nr. dimensions: 11

**Synthetic Dataset
B**

- Nr. dimensions: 100