

# Data Mining

ENSIA 2025-2026

## Lab sheet N°11: Association Rules



### Resources:

- **Mlxtend library:** [association\\_rules: Association rules generation from frequent itemsets](#)
- **Transaction encoder:** [TransactionEncoder - mlxtend](#)
- **Apriori algorithm:** [Apriori - mlxtend](#)
- **FP Growth algorithm:** [Fpgrowth - mlxtend](#)
- **FPMAX algorithm:** [Fpmax - mlxtend](#)

### Used dataset:

- Basket.csv
- Groceries data.csv

### Lab parts:

#### Part 1: Guided notebooks (90 minutes)

- **File 1:** Association\_rules.ipynb
- **File 2:** Apriori.ipynb
- **File 3:** FP Growth.ipynb

#### Part 2: Non-Guided notebook (60 minutes)

- **File:** Association\_rules\_exercises.ipynb

#### Part 3: Supervision and questions about the projects (30 minutes)