MACHINE LEARNING (IMC-4302C)

LAB 8: K-NEAREST NEIGHBORS CLASSIFIER

SLIM BEN AMOR: SLIM.BEN-AMOR@INRIA.FR

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About Lab 8

- **Outline:**
  - Understand problem of skewed class and introduce other performance measurement (precision, recall, F1-score)
  - Implement K-nearest neighbors classifier and evaluate its performance.

→**Send your report and 2 labs (Lab 7 and 8) code by mail before next session (by Monday 03/19).**

→You may submit one report per group of 2-3 persons.

Performance measurements

- Precision:

$$precision = \frac{TP}{TP+FP}$$

- Recall:

$$\text{recall} = \frac{TP}{TP+FN}$$

F1-score:

$$\text{F}_1\text{score} = 2 \times \frac{precision \times recall}{precision+recall}$$