

Advanced Human-Machine Interaction
Interaction Data Analysis
TD03: Mining Sequences of Itemsets
INSA Rouen Normandie - Normandie University

TD Machine

1. Explore how to use the Apriori algorithm using Java using Weka (<https://www.cs.waikato.ac.nz/~ml/weka/>) or in Python (e.g. `apyori1.1.1`).
2. Try to apply Apriori on the following data : <https://storm.cis.fordham.edu/~gweiss/data-mining/weka-data/weather.arff> (or from Moodle). Why is this not possible? Pre-process the data so that Apriori could be applied.
3. Using Apriori, identify :
 - the three best association rules (maximum confidence and support) to predict a game (i.e. rules containing "*play=yes*");
 - the three best association rules (maximum confidence and support) to predict the absence of a game (i.e. rules containing "*play=no*");
4. Use the sequence generator presented last week to generate new data that you could mine for the prediction of a particular context (e.g. item or item-set).