MLNN Laboratory Session

6 December 2022

Problem 1

You are provided with a dataset with the number of transactions made in the bookstore. The data is in the `books.csv`. file. Each line in this file corresponds to a transaction. Transactions show which books were purchased by the customer. There are six categories of books: Detective, History, Politics, Science Fiction, Fantasy, and Love. The numbers in the corresponding columns in books.csv ("0" or "1") indicate whether a book from that category was purchased. The last column indicates whether the customer bought a "new book".

We want to do "target marketing" for the "new book". Write a Python program based on the association rule algorithm to figure out who to target in this marketing campaign.

NB It is up to you which ML library to use. One option is to use `mlextend` library

Problem 2

If time permits, run and explore `propagation.py` script – it demonstrates how semi-supervised propagation algorithm works.

Files `books.csv` **and** `propagation.py` **are in the** `lab5.zip` **file**