

Programming Assignment - 1

Data Mining (Association Rule Mining)

README

Problem - 1

To run the code - `python main.py`

This will ask for your choices, which algorithm to use on which dataset.

After running `python main.py` you will find the following choices :

Choose one of the following file :

1. T10I4D100K
2. T40I10D100K
3. retail
4. groceries
5. Other files

NOTE - 5. Other files further ask you for the name of the file you want to evaluate (Please provide either the full path or relative path)

After choosing the dataset the program will ask you for the minimum support. After which it will show a few stats about the chosen dataset.

Next, choose one of the following options -

Enter the Algorithm choice you want to evaluate :

1. Apriori Algorithm
2. FP Tree Algorithm
3. Eclat Algorithm

Then the program will start to run. It may take some time to run the algorithm. Finally, it will show the number of frequent itemsets and all the frequent itemsets with its count.

Problem - 2

Simply run `python create_dataset.py` and it will create a dataset with the given parameters.