Data Mining Assignment 1: Association Rule Mining Report

Apriori Algorithm

Team Members

Sandesh Thakar (2017A7PS0181H)

Kunal Verma (2017A7PS0120H)

Bhargav N (2017A7PS1574H)

Dataset used

groceries.csv

Pre-processing

Apriori: Removing the NaN values from the data and converting the data to a list of lists

Number of frequent itemsets

Support	Number of frequent itemsets	Number of maximal frequent itemsets	Number of closed frequent itemsets
0.0075	531	374	531
0.01	333	243	333
0.05	31	27	31

Number of association rules

Support	Confidence	Number of association rules	Number of redundant rules
0.004	0.6	40	0
0.01	0.4	62	0
0.05	0.3	3	0

* No redundant rules were found because the set of closed frequent itemsets was equal to the set of frequent itemsets