

DSA1101: Introduction to Data Science

Practice Problem for 30 October, 2018

1. Suppose there are four items A , B , C and D . Let the minimum support threshold for frequent itemsets be 0.23. Use the apriori algorithm and the information given below to find out all the frequent itemsets.

$supp(\{A\}) = .5, supp(\{B\}) = .5, supp(\{C\}) = .3, supp(\{A, B\}) = .2,$
 $supp(\{A, D\}) = .05, confidence(\{A\} \rightarrow \{C\}) = .4, Lift(\{B\} \rightarrow \{C\}) = 5/3,$
 $confidence(\{D\} \rightarrow \{A\}) = .5, Leverage(\{A\} \rightarrow \{B, C\}) = .075.$