Machine Learning

Assignment 12.2

Submitted By: Ranji Raj

January 30, 2021

Frequent Itemsets

- a) Which data sets(s) will produce the **most** number of frequent item sets?
  (Ans. e)

- b) Which data sets(s) will produce the **fewest** number of frequent item sets?
  (Ans. d)

- c) Which data sets(s) will produce the **longest** frequent item sets?
  (Ans. e)

- d) Which data sets(s) will produce the **highest maximum support** number of frequent item sets?
  (Ans. b)

- e) Which data sets(s) will produce the frequent item sets containing items with wide-varying support levels (i.e., items with mixed support, ranging from less than 20% to more than 70%)
  (Ans. e)

(a)   **Fixed-sized bins**
(b)   **d)** There are items that appears in all the transactions
(c)   Sparse frequent-itemset **b)**
(d)

(e)   **a,c,e**   Generates most frequent, longest frequent itemsets + subsets
(f)   Data are exclusive to one set   10% are 1s 90% are 0s (uniformly distributed)