

We tried different min_sup for this system, at value of min_sup for 10, 20, 30 and 35 we got 26, 10, 9 and 6 MinRP respectively by keeping value of k=20.



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5. Conclusions

For finding minimum representative pattern sets, here have described algorithms MinRPset, Flex_Search_CXs and Search_CX. First frequent patterns are mined, and then used CFP-tree. By applying these algorithms on the CFP-tree, representative patterns generated. This also will provide some more benefits rather than minimum representative pattern sets. Users may not know what value should be used for ϵ at the beginning. The post processing strategy allows users to try different ϵ values. This is especially beneficial on very large datasets. It is easy to keep record of the set of patterns covered by each representative pattern. This information is useful for users to inspect individual representative patterns in more details.

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References

- [1] G. Liu, H. Zhang, and L. Wong, "A Flexible Approach to Finding Representative Pattern Sets," *IEEE transactions on knowledge and data engineering*, vol. 26, no. 7, July 2014.
- [2] R. Agrawal, T. Imielinski, and A. N. Swami, "Mining association rules between sets of items in large databases," in *Proc. SIGMOD, Washington, DC, USA*, 1993, pp. 207216.
- [3] D. Xin, J. Han, X. Yan, and H. Cheng, "Mining compressed frequent-pattern sets," in *Proc. 31st Int. Conf. VLDB, Trondheim, Norway*, 2005, pp. 709720.
- [4] G. Grahne and J. Zhu, "Efficiently using prefix-trees in mining frequent itemsets," in *Proc. FIMI*, 2003.
- [5] X. Yan, H. Cheng, J. Han, and D. Xin, "Summarizing itemset patterns: A profile based approach," in *Proc. KDD, Chicago, IL, USA*, 2005, pp. 314323.
- [6] A. K. Poernomo and V. Gopalkrishnan, "CP-summary: A concise representation for browsing frequent itemsets," in *Proc. KDD, New York, NY, USA*, 2009, pp. 687696.
- [7] R. Rymon, "Search through systematic set enumeration," in *Proc. KR*, 1992, pp.539550.
- [8] G. Liu, H. Lu, and J. X. Yu, "CFP-tree: A compact disk-based structure for storing and querying frequent itemsets," *Inf. Syst.*, vol. 32, no. 2, pp. 295319, 2007.

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