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ABSTRACT With the ever-growing database sizes, we have enormous quantities of data. Therefore, there is a desperate need to discover hidden knowledge in most cases in such data, but the extraction of it is a very time and resources consuming operation. Association rule mining, a data mining technique finds interesting association or correlation relationships among a large set of data items. Many current association rule mining tasks can only be accomplished successfully only in a distributed setting. Almost all existing architectures for mining in such circumstances require massive movement of data resulting in high communication costs, overheads and slow response time. There is therefore an urgent need for new architectures that will explore the capabilities of new intelligent agent based frameworks and architectural paradigms to improve on the existing system, which is the major focus of this work.

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