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VALIDATING THE OUTSOURCED RESULTS OF FREQUENT ITEM SET MINING AS A SERVICE

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ABSTRACT

"Cloud Computing" is playing a vital role by outsourcing data which is being stored in cloud server to 'n' number of third-party providers. The volume of information which is being exchanged between providers is charged and data-owner and service provider are getting benefited. Outsourcing will always become a big challenge; because nowadays data is shared between systems are attacked by man in the middle. In this paper, we had proposed certain techniques to validate whether the server had returned right mining result or not and we also concentrate particular on task of regular item-set mining. Un-trusted server which tries to elude from authentication, proposes probabilistic-validation and deterministic-validation method to validate whether server has returned right and complete results as recurrent item-sets. The proposed probabilistic-validation method is used to filter in-correct results returned from cloud server with high expectation, while our deterministic-validation method measures results with 98% accuracy. The obtained result shows accuracy of our proposed methods using comprehensive set of actual results on live data-set.

KEYWORDS*:* Item-set Mining, Outsourcing Item-set, Data-Mining as a Service, Outsourced Data-Securities, & Validation Results