Abstract

"Performance Evaluation Of Spam Detection Techniques In
Relation To Stream Computing"
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This dissertation explores an alternative to load shedding in a stream computing environment. The hypothesis which leads this research states: "Is there viability to implement adapting/switching out the computational algorithm in a stream computing system under load, where the computations being done are sufficiently complex and alternatives with a trade of in effectiveness and regained cost are available". To explore this, the application of content based spam detection was chosen as it fits a stream computing environment and requires sufficient computations. A number of machine learning models were implemented and evaluated in terms of effectiveness and cost and conclusions were drawn on the effectiveness of algorithmic adaption as an alternative to load shedding.