

## **ABSTRACT**

Support Vector Machine (SVM) was invented by J. Platt and then improved by Vapnik with Sequential Minimal Optimization technique became a commonly used in Machine Learning because of its performance. Though this algorithm has a major drawback which is its training time took more time. One of methods that is used to tackle this problem is to decompose the SMO part of algorithm in. RR Prasojoe had tested the concept on microarray cancer dataset which gained 5.7 times speed-up. Another way to tackle this is to get it implemented on GPU device. But when the concept is implemented on GPU device it can gain 3.2 times slow-down.