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**PONDICHERRY – VILLUPURAM – CUDDALORE-CHENNAI**

## **FIDOOOP: PARALLEL MINING OF FREQUENT ITEMSETS USING MAPREDUCE**

### **ABSTRACT**

Existing parallel mining algorithms for frequent item sets lack a mechanism that enables automatic parallelization, load balancing, data distribution, and fault tolerance on large clusters. As a solution to this problem, we design a parallel frequent item sets mining algorithm called FiDooop using the MapReduce programming model. To achieve compressed storage and avoid building conditional pattern bases, FiDooop incorporates the frequent items ultra metric tree, rather than Conventional FP trees. In FiDooop, three MapReduce jobs are implemented to complete the mining task. In the crucial third MapReduce job, the mappers independently decompose item sets, the reducers perform combination operations by constructing small ultra metric trees, and the actual mining of these trees separately. We implement FiDooop on our in-house Hadoop cluster. We show that FiDooop on the cluster is sensitive to data distribution and dimensions, because item sets with different lengths have different decomposition and construction costs. To improve FiDooop's performance, we develop a workload balance metric to measure load balance across the cluster's computing nodes. We develop FiDooop-HD, an extension of FiDooop, to speed up the mining performance for high-dimensional data analysis. Extensive experiments using real-world celestial spectral data demonstrate that our proposed solution is efficient and Scalable.

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## **EXISTING SYSTEM:**

In Existing System Rather than considering Apriori and FP-growth, we incorporate the frequent items ultra metric tree (FIU-tree) in the design of our parallel FIM technique. We focus on FIU-tree because of its four salient advantages, which include reducing I/O overhead, offering a natural way of partitioning a dataset, compressed storage, and averting recursively traverse.

### **DISADVANTAGE OF EXISTING SYSTEM**

- Parallel algorithms lack a mechanism that enables
- automatic parallelization,
- load balancing,
- data distribution, and
- Fault tolerance on large computing clusters.

## **PROPOSED SYSTEM:**

In Proposed System a new data partitioning method to well balance computing load among the cluster nodes; we develop FiDooop-HD, an extension of FiDooop, to meet the needs of high-dimensional data processing.

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## ADVANTAGE OF PROPOSED SYSTEM

- FiDooop is efficient and scalable on Hadoop clusters.
- reducing I/O overhead,
- offering a natural way of partitioning a dataset,
- compressed storage, and
- averting recursively travers

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## SYSTEM SPECIFICATION

### HARDWARE REQUIREMENTS:

- System: Pentium IV 2.4 GHz.
- Hard Disk: 40 GB.
- Floppy Drive: 44 Mb.
- Monitor: 15 VGA Colour.

### SOFTWARE REQUIREMENTS:

- Operating system: Windows 7.
- Coding Language : Java 1.7 ,Hadoop 0.8.1
- Database : MySql 5
- IDE : Eclipse

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