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PONDICHERRY – VILLUPURAM – CUDDALORE-CHENNAI

CLUSTERING DATA STREAMS BASED ON SHARED DENSITY BETWEEN MICRO CLUTERS

ABSTRACT

Data streams are massive, fast-changing, and in-finite. Clustering is a prominent task in mining data streams, which group similar objects in a cluster. With the aim of choosing a Re-Cluster subset of good features with respect to the target concepts, feature subset selection is an effective way for reducing dimensionality, removing irrelevant data, increasing learning accuracy, and improving result comprehensibility. While the efficiency concerns the time required to find a re-cluster subset of features, the effectiveness is related to the quality of the subset of features. In this project, proposed clustering based subset selection algorithm works in two steps. In the first step, features are divided into clusters by using graph-theoretic clustering methods. In the second step, the most representative feature that is strongly related to target classes is selected from each cluster to form a subset of features. To ensure the efficiency of this algorithm, we are going to use mRMR method with heuristic algorithm. A heuristic algorithm used for solving a problem more quickly or for finding an approximate re-cluster subset selection solution. *Minimum Redundancy*

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Maximum Relevance (mRMR) selection used to be more powerful than the maximum relevance selection. It will provide effective way to predict the efficiency and effectiveness of the clustering based subset selection algorithm.

EXISTING SYSTEM:

Data stream clustering is typically done as a two-stage process with an online part which summarizes the data into many micro-clusters or grid cells and then, in an offline process, these micro-clusters (cells) are re-clustered/merged into a smaller number of final clusters. Since the re-clustering is an offline process and thus not time critical, it is typically not discussed in detail in papers about new data stream clustering algorithms. Most papers suggest using an (sometimes slightly modified) existing conventional clustering algorithm (e.g., weighted k-means in CluStream) where the micro-clusters are used as pseudo points. Another approach used in Den Stream is to use reach ability where all micro-clusters which are less than a given distance from each other are linked together to form clusters. Grid-based algorithms typically merge adjacent dense grid cells to form larger clusters (see, e.g., the original version of D-Stream and MR-Stream).

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DISADVANTAGES OF EXISTING SYSTEM :

1. The number of clusters varies over time for some of the datasets. This needs to be considered when comparing to clustream, which uses a fixed number of clusters.
2. This reduces the speed and accuracy of learning algorithms.
3. Some existing systems doesn't removes redundant features alone.

PROPOSED SYSTEM:

In proposed system develop and evaluate a new method to address this problem for micro-cluster-based algorithms. We introduce the concept of a shared density graph which explicitly captures the density of the original data between micro-clusters during clustering and then show how the graph can be used for re-clustering micro-clusters.

In this project, proposed Clustering based subset Selection algorithm uses minimum spanning tree-based method to cluster features. Moreover, our proposed algorithm does not limit to some specific types of data.

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Irrelevant features, along with redundant features, severely affect the accuracy of the learning machines. Thus, feature subset selection should be able to identify and remove as much of the irrelevant and redundant information as possible. Moreover, “good feature subsets contain features highly correlated with (predictive of) the class, yet uncorrelated with (not predictive of) each other.”

In our proposed Cluster based subset Selection algorithm, it involves 1) the construction of the minimum spanning tree from a weighted complete graph; 2) the partitioning of the MST into a forest with each tree representing a cluster; and 3) the selection of representative features from the micro-clusters.

ADVANTAGE OF PROPOSED SYSTEM:

1. This is an important advantage since it implies that we can tune the online component to produce less micro-cluster for shared-density re-clustering.
2. It improves performance and, in many cases, the saved memory more than offset the memory requirement for the shared density graph.

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SYSTEM SPECIFICATION

HARDWARE REQUIREMENTS

- Processor - Pentium –III
- Speed - 1.1 Ghz
- RAM - 256 MB(min)
- Hard Disk - 20 GB
- Floppy Drive - 1.44 MB
- Key Board - Standard Windows Keyboard
- Mouse - Two or Three Button Mouse
- Monitor - SVGA

SOFTWARE REQUIREMENTS

- Operating System : Windows 8
- Front End : Java
- Database : Mysql

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