

# A comprehensive review on Data Stream Mining techniques for data classification; and future trends

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## Abstract

Data Mining is a developing interdisciplinary control managing Data Reclamation and Data Stream Mining techniques, whose subject is gathering, overseeing, processing, breaking down, and visualizing the huge volume of organized or unstructured data. Data stream mining indicates how to look at Unknown patterns from a massive amount of data over algorithms. It has experienced quick improvement with significant progress in math, statistics, data science, and computer science domains. Data streams are commonly generated by various sources such as sensor networks, social media feeds, financial transactions, online retail, network traffic, and many other applications. The gathered data could be additionally utilized for various purposes, for example, execution assessment, irregularity discovery, change identification, or issue finding of the operating systems. This data stream analysis is done using different data stream mining techniques. This paper provides a broad overview of the distinct approaches used for data stream mining. Initially, we studied the different techniques of data stream mining. Next, we discuss the different clustering and classification techniques and their benefits. Then we examine the evaluation of different data stream mining techniques results that some techniques are feasible for real-time data streams and some of not. This study provides a complete understanding of techniques and their benefits. The studies done so far need to be sufficiently exhaustive for data mining techniques, so future work is needed to assess which technique is feasible for real-time data streams.

**Keywords:** Data Stream Mining, Rapid Development, Classification, Clustering, D-Stream, HP Stream, ANNCAID, CDM, ANSOM, Clustream, Approximate Frequent Counts

## 1. Introduction

Data streams mean data flow continuously; for example, data arrive from different sources of real-time applications such as Facebook, internet traffic, socket markets, etc. Therefore, data speed and volume are critical challenges in data stream mining [1].

Now, online applications are generating data constantly, and data is growing very fast, for a considerable amount of data is generated by applications used to start different stream data approaches. Data stream mining techniques are used to analyze vast volumes of data to find patterns required to make business decisions. In real-time making a business decision, stream data mining has become important research work and uses different areas of computer science and engineering. These techniques are challenges to processing huge amounts of data. Stream data can be trained algorithms by example that continuously huge amounts of data with high speed from different sources as shown in Figure 1.

Data stream mining is a very famous and fascinating area of research in computer science that has gotten very important in the last two decades. Although the systems of the modern era are very advanced, the hardware and software are advancing day to day for the benefit of human beings. As a result, data generation is increasing with these advanced hardware devices, like Fire detection systems in hospitals or rooms, Earth Quack detection, and flood detection. This speedily produced data is called "data streams" [2].

The transactions of debit cards, online transactions, remote sensors, scientific process, stock market, our search queries on Google Search Engine or any search engine, the phone calls in a city, the daily posts on different social platforms like Facebook, tweets, Instagram's, what's-app, linked-in as well as the internet traffics or so many others distinct data streams. We need to carefully analyze streaming data for these kinds of real-time data streaming applications. Traditional data mining techniques still need to fulfill the rapidly growing needs of data stream mining. We have been developing new and adopting existing techniques that enable them to stay activated till yet in a streaming environment with the help of Ram-

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**Big Data in Multimodal Medical Imaging** Ayman El-Baz, Jasjit S. Suri, 2019-11-05 There is an urgent need to develop and integrate new statistical, mathematical, visualization, and computational models with the ability to analyze Big Data in order to retrieve useful information to aid clinicians in accurately diagnosing and treating patients. The main focus of this book is to review and summarize state of the art big data and deep learning approaches to analyze and integrate multiple data types for the creation of a decision matrix to aid clinicians in the early diagnosis and identification of high risk patients for human diseases and disorders. Leading researchers will contribute original research book chapters analyzing efforts to solve these important problems.

**Machine Learning: Theoretical Foundations and Practical Applications** Manjusha Pandey, Siddharth Swarup Rautaray, 2021-04-19 This edited book is a collection of chapters invited and presented by experts at 10th industry symposium held during 9-12 January 2020 in conjunction with 16th edition of ICDCIT. The book covers topics like machine learning and its applications, statistical learning, neural network learning, knowledge acquisition and learning, knowledge intensive learning, machine learning and information retrieval, machine learning for web navigation and mining, learning through mobile data mining, text and multimedia mining through machine learning, distributed and parallel learning algorithms and applications, feature extraction and classification theories and models for plausible reasoning, computational learning theory, cognitive modelling and hybrid learning algorithms.

**Enterprise, Business-Process and Information Systems Modeling** Han van der Aa, Dominik Bork, Rainer Schmidt, Arnon Sturm, 2024-05-30 This book contains the refereed proceedings of two long running events held along with the CAiSE conference relating to the areas of enterprise

business process and information systems modeling the 25th International Conference on Business Process Modeling Development and Support BPMDS 2024 and the 29th International Conference on Exploring Modeling Methods for Systems Analysis and Development EMMSAD 2024 The conferences were taking place in Limassor Cyprus during June 3 4 2024 For BPMDS 8 full papers and 3 short papers were carefully reviewed and selected for publication from a total of 25 submissions for EMMSAD 11 full papers and 5 short papers were accepted from a total of 32 submissions after thorough reviews The BPMDS papers deal with a broad range of theoretical and applications based research in business process modeling development and support EMMSAD focusses on modeling methods for systems analysis and development

### **Reuse in**

**Intelligent Systems** Stuart H Rubin,Lydia Bouzar-Benlabiod,2020-03-24 The book is based on the best papers of IEEE IRI 2018 and IEEE FMI 2018 Salt Lake City July 2018 They have been enhanced and modified suitably for publication The book comprises recent works covering several aspects of reuse in intelligent systems including Scientific Theory and Technology Based Applications New data analytic algorithms technologies and tools are sought to be able to manage integrate and utilize large amounts of data despite hardware software and or bandwidth constraints to construct models yielding important data insights and to create visualizations to aid in presenting and understanding the data Furthermore it addresses the representation cleansing generalization validation and reasoning strategies for the scientifically sound and cost effective advancement of all kinds of intelligent systems including all software and hardware aspects The book addresses problems such as how to optimally select the information data sets for reuse and how to optimize the integration of existing information knowledge with new developing information knowledge sources

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Charu C. Aggarwal,2007-04-03 This book primarily discusses issues related to the mining aspects of data streams and it is unique in its primary focus on the subject This volume covers mining aspects of data streams comprehensively each contributed chapter contains a survey on the topic the key ideas in the field for that particular topic and future research directions The book is intended for a professional audience composed of researchers and practitioners in industry This book is also appropriate for advanced level students in computer science

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abbreviations used in organizational and geographical names      **Adaptive Stream Mining** Albert Bifet,2010 This book is a significant contribution to the subject of mining time changing data streams and addresses the design of learning algorithms for this purpose It introduces new contributions on several different aspects of the problem identifying research opportunities and increasing the scope for applications It also includes an in depth study of stream mining and a theoretical analysis of proposed methods and algorithms The first section is concerned with the use of an adaptive sliding window algorithm ADWIN Since this has rigorous performance guarantees using it in place of counters or accumulators it offers the possibility of extending such guarantees to learning and mining algorithms not initially designed for drifting data Testing with several methods including Na ve Bayes clustering decision trees and ensemble methods is discussed as well The second part of the book describes a formal study of connected acyclic graphs or trees from the point of view of closure based mining presenting efficient algorithms for subtree testing and for mining ordered and unordered frequent closed trees Lastly a general methodology to identify closed patterns in a data stream is outlined This is applied to develop an incremental method a sliding window based method and a method that mines closed trees adaptively from data streams These are used to introduce classification methods for tree data streams

**Stream Data Mining: Algorithms and Their Probabilistic Properties** Leszek Rutkowski,Maciej Jaworski,Piotr Duda,2019-03-16 This book presents a unique approach to stream data mining Unlike the vast majority of previous approaches which are largely based on heuristics it highlights methods and algorithms that are mathematically justified First it describes how to adapt static decision trees to accommodate data streams in this regard new splitting criteria are developed to guarantee that they are asymptotically equivalent to the classical batch tree Moreover new decision trees are designed leading to the original concept of hybrid trees In turn nonparametric techniques based on Parzen kernels and orthogonal series are employed to address concept drift in the problem of non stationary regressions and classification in a time varying environment Lastly an extremely challenging problem that involves designing ensembles and automatically choosing their sizes is described and solved Given its scope the book is intended for a professional audience of researchers and practitioners who dealwith stream data e g in telecommunication banking and sensor networks

**Data Stream Mining and Analysis** Christian Nordahl,2024      **Data Streams** S. Muthukrishnan,2005 In the data stream scenario input arrives very rapidly and there is limited memory to store the input Algorithms have to work with one or few passes over the data space less than linear in the input size or time significantly less than the input size In the past few years a new theory has emerged for reasoning about algorithms that work within these constraints on space time and number of passes Some of the methods rely on metric embeddings pseudo random computations sparse approximation theory and communication complexity The applications for this scenario include IP network traffic analysis mining text message streams and processing massive data sets in general Researchers in Theoretical Computer Science Databases IP Networking and Computer Systems are working on the data stream challenges

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