

Review

Cleaning Big Data Streams: A Systematic Literature Review

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Abstract: In today's big data era, cleaning big data streams has become a challenging task because of the different formats of big data and the massive amount of big data which is being generated. Many studies have proposed different techniques to overcome these challenges, such as cleaning big data in real time. This systematic literature review presents recently developed techniques that have been used for the cleaning process and for each data cleaning issue. Following the **PRISMA framework**, four databases are searched, namely **IEEE Xplore**, **ACM Library**, **Scopus**, and **Science Direct**, to select relevant studies. After selecting the relevant studies, we identify the techniques that have been utilized to clean big data streams and the evaluation methods that have been used to examine their efficiency. Also, we define the cleaning issues that may appear during the cleaning process, namely missing values, duplicated data, outliers, and irrelevant data. Based on our study, the **future directions of cleaning big data streams are identified**.

Keywords: clean; big data; streams; machine learning; deep learning; artificial intelligence; missing value; outliers; duplicate data; irrelevant data



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1. Introduction

In today's big data era, streaming data has recently received increased attention from researchers, especially in relation to cleaning and analyzing streaming data. Streaming data refer to data which are continuously generated from various sources and moving them to a particular destination. The accumulation of these sources generates what is called a big data stream.

Big data is often described by five characteristics, namely volume, velocity, variety, veracity, and value Erl et al. [1], which differentiate it from traditional data. Volume refers to the size, scale, quantity, and magnitude of the data that have been generated, the size of which can exceed hundreds of terabytes. Velocity refers to the arrival speed of data, which results in the accumulation of enormous datasets within very short periods. Variety refers to the different formats of data, namely structured data, semi-structured data, and unstructured data. Structured data have a standardized format and a well-defined structure and generally reside in relational databases to represent the relationship between entities such as tables. Semi-structured data are not as rigid as structured data; however, they have several elements that are similar, being organized hierarchically, although it cannot be verified whether the tabular structure is associated with relational databases. Unstructured data, which are growing at a faster rate than structured and semi-structured data, have no easily identifiable structure and they cannot be stored in any logical form Erl et al. [1]. Veracity refers to the validity or quality of data. Value refers to the usefulness of data for decision making. Big data's characteristics increase the difficulty of the cleaning process compared with that for normal data due to the heterogeneous data, the volume, and

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Table of Contents Stock Cleaning Technology A Literature Review

1. Understanding the eBook Stock Cleaning Technology A Literature Review
 - The Rise of Digital Reading Stock Cleaning Technology A Literature Review
 - Advantages of eBooks Over Traditional Books
2. Identifying Stock Cleaning Technology A Literature Review
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Stock Cleaning Technology A Literature Review
 - User-Friendly Interface
4. Exploring eBook Recommendations from Stock Cleaning Technology A Literature Review
 - Personalized Recommendations
 - Stock Cleaning Technology A Literature Review User Reviews and Ratings
 - Stock Cleaning Technology A Literature Review and Bestseller Lists
5. Accessing Stock Cleaning Technology A Literature Review Free and Paid eBooks

- Stock Cleaning Technology A Literature Review Public Domain eBooks
- Stock Cleaning Technology A Literature Review eBook Subscription Services
- Stock Cleaning Technology A Literature Review Budget-Friendly Options
- 6. Navigating Stock Cleaning Technology A Literature Review eBook Formats
 - ePub, PDF, MOBI, and More
 - Stock Cleaning Technology A Literature Review Compatibility with Devices
 - Stock Cleaning Technology A Literature Review Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Stock Cleaning Technology A Literature Review
 - Highlighting and Note-Taking Stock Cleaning Technology A Literature Review
 - Interactive Elements Stock Cleaning Technology A Literature Review
- 8. Staying Engaged with Stock Cleaning Technology A Literature Review
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Stock Cleaning Technology A Literature Review
- 9. Balancing eBooks and Physical Books Stock Cleaning Technology A Literature Review
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Stock Cleaning Technology A Literature Review
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Stock Cleaning Technology A Literature Review
 - Setting Reading Goals Stock Cleaning Technology A Literature Review
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Stock Cleaning Technology A Literature Review
 - Fact-Checking eBook Content of Stock Cleaning Technology A Literature Review
 - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development

- Exploring Educational eBooks

14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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