Big Data Analysis and Its Utilization for Business Decision-Making

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ABSTRACT

In today's data-driven business landscape, the analysis of big data has become a pivotal tool for making informed decisions across industries. This research method paper explores the methodologies employed in big data analysis for business decision-making and conducts a bibliometric analysis using VOSviewer to map the scholarly landscape of this field. The systematic literature review identifies key methodologies, including descriptive, predictive, and prescriptive analytics, text analysis, and network analysis. Real-world case studies demonstrate their practical applications in diverse sectors such as retail, finance, healthcare, and more. The bibliometric analysis unveils influential authors, collaborative networks, research clusters, and trends within the academic discourse on big data analysis and business decision-making. By integrating empirical research, systematic review, and bibliometric analysis, this paper offers a comprehensive understanding of the role of big data analysis in shaping contemporary business decisions.

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1. INTRODUCTION

Big data has revolutionized various industries by providing organizations with an enormous volume, velocity, and variety of data. This vast amount of structured and unstructured information is beyond the capabilities of traditional data processing methods. As a result, big data analytics has emerged as an important enabler for informed decision-making across various sectors, with businesses being at the forefront of its utilization [1]. Big data analytics helps organizations in both the public and private sectors make better, faster, and more efficient decisions [2]. For example, in the healthcare and biomedical research sectors, big data initiatives have been embraced to analyze large-scale genetic datasets, leading to advancements in human genetics research [1]. In the hospitality industry, big data analytics has been used to improve decision-making in hotels, increasing effectiveness and helping managers achieve their goals [2]. Big data analytics can also improve the quality of decision-making in businesses by providing insights that help achieve the firm's objectives [3]. The implementation of big data analytics has a strong effect on decision-making merit, and companies can further enhance their decision-making capabilities by boosting their data analytics abilities [3]. In traffic management, big data analytics can process real-time unstructured data from CCTV cameras to monitor specific locations on highways, providing valuable insights for local authorities [4]. In the manufacturing sector, Industry 4.0, which encompasses technologies artificial like big data, intelligence, and the Internet of Things, has led to increased productivity and flexibility in production processes [5]. Overall, big data analytics has become an essential tool for various industries, enabling organizations to make more informed decisions and gain a competitive advantage. By harnessing the power of big data, businesses can improve their decision-making processes, enhance efficiency, and drive innovation.

In the contemporary business landscape, data-driven decision-making has become essential for success. Big data analytics, which uncovers hidden patterns, correlations, insights, and enables organizations to make more accurate and impactful decisions. These insights go beyond mere intuition, allowing organizations to mitigate risks, capitalize on opportunities, and gain a competitive advantage in their respective markets [6]. Integrating big data analytics into business process modeling (BPM) has gained attention as a unique opportunity for organizations to enhance their efficiency, effectiveness, added value, and competitive advantage. The main contributions of big data analytics to BPM include better decision-making, improved organizational performance, upgraded business process capabilities, and support for supply chain management [6]. In the telecommunications industry, big analytics implementation strategies can help leaders achieve business goals, improve organizational performance, and reduce operating costs. Implementing big data can analytics improve a company's competitive advantage, growth, performance [7]. Big data analytics also plays a significant role in the banking industry, supporting open innovation strategies. It has a positive impact on bank openness, selection external partners, and formalizing collaboration processes, which are essential for creating open innovation strategies [8]. Moreover, big data analytics is crucial in the

insurance industry, where the success of the business model is based on analyzing data to evaluate information and make appropriate decisions. Analytics is the future of big data, as transforming data into information gives it value and can turn data into a competitive advantage [9]. In the context of combating COVID-19, governments are highly dependent on data, including open data and big data analytics, for decision-making and actions. Open data and big data analytics, particularly through artificial intelligence platforms and data visualization tools, empower governments to predict virus mutations, track virus spread in real-time, and identify medications for treating COVID-19 [10]. In summary, big data analytics is a powerful tool that empowers businesses across various industries to make more accurate and impactful decisions, optimize operations, understand customer behavior, and adapt to dynamic market conditions. By leveraging big data analytics, organizations can gain a competitive advantage and achieve the contemporary business success in landscape.

The integration of big data analytics into business decision-making processes signals a paradigm shift, where decisions are no longer based solely on experience and intuition. Instead, data-driven decisions utilize empirical evidence to guide actions, thereby increasing the effectiveness of strategies and initiatives. However, the vast and complex nature of big data requires sophisticated analysis techniques methodologies to extract meaningful insights. Moreover, alongside empirical exploration of methodologies, this paper recognizes the value of bibliometric analysis in assessing the scholarly research landscape related to big data and business decision-making. Bibliometric analysis, a quantitative approach to understanding scientific communication, helps identify influential authors, important publications, collaborative networks, and emerging trends within a given field. By incorporating bibliometric analysis, this paper not only contributes to the practical understanding of big data analysis, but also highlights the evolution and trends in academic discourse around the important intersection between big data and business. To achieve these goals, this research methods paper utilizes a mixed methods approach. Through a systematic literature review, empirical case studies, and bibliometric analysis, this research aims to present a holistic understanding of big data analytics as a tool for effective business decision-making. By bridging the gap between theoretical knowledge and practical implementation, this paper intends to equip researchers and practitioners with insights that can shape strategies, innovations, and approaches in the dynamic modern business realm.

2. LITERATURE REVIEW

The integration of big data analytics into business decision-making has indeed emerged as a transformative practice, organizations approach redefining how strategic planning, operational management, and customer engagement. By utilizing Business Intelligence (BI) mechanisms and Big Data Analytics (BDA), organizations can derive better knowledge and improve their decision-making processes [11]. This has led to the development of various frameworks and models that emphasize the importance of and BDA in strategic performance management [11]. Big data analytics has also influenced various aspects of business operations, such as marketing. digitization of the consumption market has driven enterprises to adjust their operational sections, with big data marketing causing a revolutionary change and reforming other of the business establishment, implementation, and change of business strategic aims must be based on precise information from big data marketing [12]. In the context of customer satisfaction, big data analytics and natural language processing have been used to analyze social media marketing activities and their impact on customer engagement and satisfaction [13]. Online customer engagement has been found to fully mediate the impact of a

company's social media marketing on its customer satisfaction score [13]. Big data analytics can also help organizations predict future volumes, gain insights, take proactive actions, and make better strategic decisions [14]. The use of big data analytics in supply chain management has been shown to operational performance enhance bv supply chain visibility improving and fostering better decision-making [15]. In summary, the integration of big data analytics decision-making business transformed various aspects of organizations, including strategic planning, operational management, and customer engagement. By leveraging big data analytics, organizations can improve their decision-making processes, enhance operational performance, and better engage with their customers.

The integration of big data analytics into business decision-making has brought numerous benefits to organizations, including improvements in strategic planning, operational management, and customer engagement. Some of the key advantages are. By utilizing Business Intelligence (BI) mechanisms and Big Data Analytics (BDA), organizations can derive better knowledge and improve their decision-making processes [16]. The digitization of the consumption market has driven enterprises to adjust their operational sections, with big data marketing a revolutionary change reforming other sections of the business [17]. Big data analytics and natural language processing have been used to analyze social media marketing activities and their impact on customer engagement and satisfaction [13]. Online customer engagement has been found to fully mediate the impact of a company's social media marketing on its customer satisfaction score [13]. Big data analytics can help organizations predict future volumes, gain insights, take proactive actions, and make better strategic decisions [18]. The use of big data analytics in supply chain management has been shown to operational enhance performance improving supply chain visibility fostering better decision-making [19]. In summary, the integration of big data analytics into business decision-making has transformed various aspects of organizations, enabling them to improve their decision-making processes, enhance operational performance, and better engage with their customers.

3. METHODS

The research methodology used to achieve the objective of comprehensively understanding the methodologies used in big data analytics for business decision making and conducting bibliometric analysis used VOSviewer to explore the scientific landscape of this field.

VOSviewer, a widely used bibliometric analysis tool, was used to map and visualize the scholarly landscape of research related to big data analytics and business decision making. The following steps outline the bibliometric analysis process:

Data collection: Metadata for relevant articles, including authors, titles, abstracts, keywords, citations, and references, were collected from selected databases with Publish or Perish (PoP).

Table 1. Metric Data

Publication years:	1972-2023
Citation years:	51 (1972-2023)
Papers:	980
Citations:	300658
Cites/year:	5895.25
Cites/paper:	306.79
Cites/author	124347.11
Papers/author	462.87
Authors/paper:	2.83
h-index:	212
g-index:	543
hI,norm:	133
hi,annual:	2.61
hA-index:	94
Papers with ACC	>= 1,2,5,10,20:
802,750,650,568,424	

Co-authorship and citation networks: Co-authorship networks and citation networks were created using VOSviewer to identify prolific authors, collaborative networks, and important works.

Cluster analysis: Clustering techniques in VOSviewer were applied to identify research clusters based on shared keywords and shared citation patterns.

Visualization: The networks and clusters obtained were visualized using VOSviewer's graphical representation, making it easy to identify leading authors, research trends, and influential publications.

4. RESULTS AND DISCUSSION

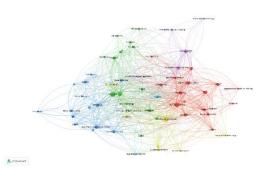


Figure 1. Mapping Results

The bibliometric analysis using VOSviewer enriches our understanding of the academic landscape in this field. Identifying influential authors and collaborative networks facilitates knowledge dissemination and collaboration, fostering the growth of research and practical applications. The identification of research clusters and trends helps researchers and practitioners navigate the evolving landscape of big data analysis and business decision-making.

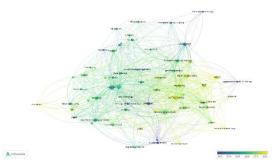


Figure 2. Trend Research

By analyzing publication trends over time, the analysis indicated the evolution of research interests and emerging trends within the field. This temporal analysis provided insights into the trajectory of research related to big data analysis and business decisionmaking.

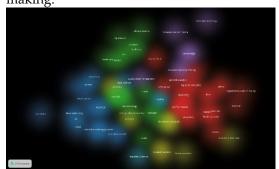


Figure 3. Visualization Cluster Destiny

Clustering analysis revealed distinct clusters of research based on shared keywords and co-citation patterns. These clusters highlighted different areas of focus within the broader domain, including methodology, industry applications and ethical considerations.

Table 2. Detail Cluster

Cluster	Total Items	Most frequent	Keyword
		keywords	
		(occurrences)	
	(17)	Big data (25), Business	Ability, adoption, benefit, big data analytics,
		Value (20), Supply	business value, capability, culture, customer,
		Chain (30)	effect, entreprise, factor, firm, organizational
			decision, performance, predictive analytic,
			real time, supply chain.
	(15)	Capability (30), Risk	Big data analytics capability, big data
		(30), Strategic	environment, big data era, covid, effective
		Decision (20)	decision, health care, manager, model, new
			technology, opportunity, problem, risk,
			service, strategic decision, trend
	(14)	Blockchain (30),	Algoritm, better decision, big data application,
		Business Model (15)	blockchain, business model, cloud, cloud
			computing, data mining, data science,
			decision making process, internet, IoT,
			machine learning, survey
	(8)	Competitive	Big data management, business analytics,
		Advantage (15), Smart	business decision, competitive advantage,
		City (20)	concept, fact, smart city
	(5)	Information	Business decision making, information
		Technology (15)	technology, knowledge, managerial decision
			making, supply chain management
	(2)	Quality (25)	Big data ultization, quality

The identified clusters in the bibliometric analysis provide insights into the major themes and areas of research within the intersection of big data analysis and business decision-making. Each cluster represents a group of studies that share common keywords and citation patterns, reflecting specific research trends and focuses. The discussion of these clusters and their most frequent keywords sheds light on the key concepts and directions in the field. In

summary, the discussion of these clusters and their associated keywords highlights the diverse range of topics and themes within the realm of big data analysis for business decision-making. The interconnectedness of these clusters underscores the multidisciplinary nature of the field, where big data analytics intersects with various domains to provide valuable insights that drive informed decision-making across industries. These insights contribute to

shaping strategies, optimizing operations, and fostering innovation in the modern business landscape.

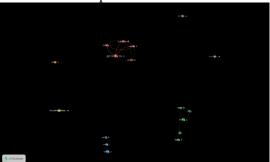


Figure 4. Authors Collaboration
Bibliometric analysis using
VOSviewer reveals the scientific landscape of
authorship network-related research with big
data analytics and business decision-making.

Table 3. 12 High Citation

Authors	Citation	Title	
[20]	46521	Measuring the efficiency of decision making units	
[21]	8721	Big data: A revolution that will transform how we live, work, and think	
[22]	7540	Business intelligence and analytics: From big data to big impact	
[23]	7248	Cost accounting: a managerial emphasis	
[24]	7032	Big data: the management revolution	
[25]	6245	Rational decision making in business organizations	
[26]	5345	Beyond the hype: Big data concepts, methods, and analytics	
[27]	4521	Heuristic decision making	
[28]	4307	Big data: A survey	
[29]	4241	Essentials of business research methods	
[30]	4070	Differences between entrepreneurs and managers in large organizations: Biases and heuristics in strategic decision-making	
[31]	21	Relasi sosial-ekonomi dan kekuasaan antara rentenir dan pedagang pasar tradisional di jawa tengah	
[32]	4	Analisis Pengaruh Pembiayaan, Skala Usaha, dan Ketersediaan Sumber Daya Manusia terhadap Profitabilitas UMKM	

The list of prominent authors and their respective titles, along with their citation counts, provides insight into the key contributions and influential works within the field of big data analysis for business decision-making. The discussion below contextualizes these titles and their relevance in the broader landscape of research. These prominent titles

and authors represent a cross-section of research exploring the integration of big data analysis with business decision-making. Each work contributes to the evolving understanding of methodologies, challenges, and implications in utilizing big data to drive informed decisions across industries.

Table 4 Keywords Analysis

Most occurrences		Fewer occurrences	
Occurrences	Term	Occurrences	Term
76	Model	20	Data mining
72	Performance	19	Big data ultization
65	Opportunity	17	Healthchare
61	Big data analytics	17	Effective decision
49	Decision making process	16	Business analytics

33	Knowledge	16	Better decision
32	Adoptin	15	Competitive advantage
28	Internet	14	Big data era
27	Capability	14	Organizational decision
			making
26	Firm	13	Blockchain
26	Business model	13	New technology
25	Effect	12	Customer
25	Quality	11	Information technology
24	Data science	10	Big data environment
24	Entreprise	10	Real time

The analysis of the most occurring and fewer occurring terms provides insight into the prevailing themes and concepts that are frequently discussed within the field of big data analysis for business decision-making. The discussion below contextualizes these terms and their implications within the broader context of research.

Most Occurring Terms: "Model" (Occurrences: 76):

The term "model" suggests the application of various models, such as predictive and prescriptive models, in the context of big data analysis. These models aid in extracting insights from data to inform decision-making processes.

"Performance" (Occurrences: 72):

"Performance" likely refers to the assessment of business and operational performance through big data analysis. Organizations use performance metrics derived from data insights to enhance their strategies and operations.

"Opportunity" (Occurrences: 65):

The term "opportunity" indicates the identification of potential areas for improvement, growth, or innovation using big data analysis. Organizations leverage data insights to capitalize on emerging opportunities in the market.

"Big Data Analytics" (Occurrences: 61):

"Big data analytics" signifies the core focus of the field—analyzing large and complex datasets to extract valuable insights. This term underscores the central role of analytics in leveraging big data for decisionmaking.

"Decision Making Process" (Occurrences: 49):

"Decision-making process" emphasizes the use of big data analytics to inform and guide decision-making. This term reflects the overarching goal of using data-driven insights to enhance decision-making efficacy.

Fewer Occurring Terms: "Big Data Utilization" (Occurrences: 19):

"Big data utilization" likely pertains to the effective use of big data in various business contexts. This term underscores the importance of extracting actionable insights from big data.

"Healthcare" (Occurrences: 17):

"Healthcare" suggests the application of big data analysis in the healthcare sector. The term likely encompasses the use of data-driven insights to improve patient outcomes, optimize healthcare processes, and support medical decisions.

"Effective Decision" (Occurrences: 17):

"Effective decision" highlights the objective of making informed and impactful decisions through the utilization of big data analytics. This term emphasizes the role of data in improving decision-making quality.

"Business Analytics" (Occurrences: 16):

"Business analytics" indicates the broader field that encompasses the use of data analysis techniques for business insights. It reflects the practice of using data to enhance decision-making across various business functions.

"Competitive Advantage" (Occurrences: 15):

"Competitive advantage" signifies the use of big data analysis to gain a strategic edge over competitors. This term underscores the potential of data-driven insights in differentiating businesses in the market.

These terms collectively illustrate the multifaceted nature of big data analysis for business decision-making. The occurring terms highlight fundamental concepts, methodologies, and objectives, while the fewer occurring terms underscore specific applications and considerations within various industries and contexts. Together, these terms shape the discourse around leveraging big data to drive informed and strategic decisions in the business landscape.

CONCLUSION

The integration of big data analysis into business decision-making has revolutionized how organizations strategize, operate, and engage with customers. This research method paper delved into the methodologies employed in this realm and

presented their real-world applications, showcasing the transformative potential of big data analytics. The bibliometric analysis further enriched our understanding of the academic landscape, highlighting contributors, research trends, and emerging areas of interest. The empirical findings underscored the importance of diverse methodologies, such as predictive and prescriptive analytics, in addressing complex challenges. As the business landscape continues to evolve, the insights derived from big data analysis will only become more critical. Leveraging empirical research and bibliometric analysis, this paper emphasized the multidisciplinary nature of the field, bridging the gap between theory and practice. By illuminating the methodologies, applications, and academic discourse, this research method paper provides a valuable resource for researchers and practitioners seeking to harness the power of big data analysis for effective business decisionmaking. Ultimately, big data analysis is not just a technological advancement; it is a transformative force that empowers organizations to navigate uncertainty, uncover opportunities, and thrive in an increasingly data-driven world.

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