

## **AI-POWERED INNOVATIONS REVOLUTIONISING SUPPLY CHAIN MANAGEMENT FOR EFFICIENCY AND RESILIENCE**

**Dr Rashel Sarkar**

Associate Professor, Royal Global University

**Dr. Sunil Mishra**

Professor, Medi-Caps University, Indore

**Dr.Chethan S**

Assistant Professor, Department of Mechanical Engineering, ATME college of Engineering  
Mysuru Karnataka India

**Dr. Harish Morwani**

Associate Professor, IAR University, Gandhinagar

**Shaikh Sarfaraj**

Symbiosis International University, Symbiosis Institute of Technology, Pune 412115, India

**Dr. Meenakshi Sharma**

Professor- Faculty of Commerce and Management, University-RNB Global University-  
Bikaner

### **ABSTRACT**

Artificial Intelligence (AI) holds the capacity to transform various facets of business operations. Artificial intelligence (AI) can be used to discover supply chain failures, estimate demand, enhance operations and transportation routes, and evaluate data. In today's digital world, artificial intelligence (AI) seeks to offer prompt data access and wise counsel in progressively complicated financial scenarios. Critical information examination for authoritative restoration is stimulating scholarly interest in information examination. Regardless of the rising utilization of enormous data analysis for direction, shockingly little is had some significant awareness of how data management abilities improve data encounters for supply chain sustainability and the rehashing cycle. Specialists say that organizations normally use huge data analysis and artificial intelligence (AI) to conjecture the future advancements of the supply chain 4.0 business areas. Thus, a sample of ninety people was gathered for the relevant inquiry in order to generate quantitative evidence utilizing measurable methods. The review uses explicit factor evaluation, association analysis, and relapse investigation to define the goals. Artificial intelligence has the potential to significantly improve stock management, security, operational expenses, and distribution center efficiency, according to research. Overall, the study finds that throughout the information-gathering phase, artificial intelligence will have a significant impact on the supply chain. Creating fresh open doors for businesses in all sectors is typical. Implementing AI can help supply chains become even more productive

and agile by providing insights into any disruptions ahead of time and helping to mitigate them. Additionally, AI may help with process upgrades throughout the entire supply chain organization and with identifying new opportunities.

**Keywords:** AI-Powered, Innovations, Revolutionising, Supply Chain Management, Artificial Intelligence

## 1. INTRODUCTION

Supply chain management is only one of the many industries that artificial intelligence (AI), a rapidly evolving technology, is having a big impact on. AI has the potential to automate tasks, advance navigation, and improve workflows. This has the potential to significantly increase efficacy, efficiency, and benefit.

Combination of artificial intelligence (AI) into a few business fields has drawn in a great deal of consideration recently. One industry that is seeing huge development is supply chain management. Artificial intelligence (AI) has genuine and common-sense applications in supply chain management. It is based on a grouping of strong works that driving researchers in this field have embraced. This study's main goal is to accumulate and evaluate the main discoveries and valuable open doors from these examinations to reveal insight into the different ways that artificial intelligence (AI) may influence supply chain ability, nimbleness, and versatility.

This article's review survey tends to an extensive variety of supply chain management and AI-related subjects, including customisation, last-mile conveyance, usability, limiting interruptions, and composed obtaining. These assessments advance our insight into artificial intelligence's (AI) expected applications to tackle issues and make the most of chances in the quickly changing field of supply chain management, both hypothetically and essentially. This exploration paper aims to give a careful outline of the progressions made in supply chain management applications of artificial intelligence by breaking down the pieces of data given by these assessments. The evaluated distributions add to the ongoing conversation on the potential benefits of artificial intelligence (AI) for further developing trustworthy and compelling supply chains. They contain observational assessments, hypothetical structures, and helpful disclosures. This aggregation is a fundamental asset for supply chain experts, workers, and administrators who wish to get further understanding into the creating connection between supply chain management and artificial intelligence.

The core of contemporary trade is supply chain management, which handles the difficult parts of production, transportation, appropriation, and purchase. Maintaining cost-effectiveness, client loyalty, and functional proficiency are all highly dependent on it. In the realm of supply chain management, however, there are always fresh obstacles to overcome and tried-and-true techniques to replace the status quo. At the vanguard of this creative insurgency is artificial intelligence (AI), a perspective that has evolved from basic management status to become an amazing power throughout enterprises. The area of artificial intelligence (AI) is wide and encompasses the mechanical representation of human cognitive processes. Artificial intelligence improves a framework's ability to learn, explore, and adapt, all of which aid in improving its decision-making. In the modern business world, artificial intelligence is a driving force that is changing tactics and organizational structures. It is becoming an increasingly powerful instrument with the potential to transform supply chain management, and all facets of hierarchical execution understand its importance. The purpose of this article is to look at the

practical advantages that supply chain management and artificial intelligence (AI) share, as well as the impacts, possible uses, and validated applications of AI. The goal is to utilize the latest improvements at this convergence of advancement and methodologies to outline the developing capability of artificial intelligence (AI) in supply chain streamlining. This article likewise offers a complete analysis of the connection between supply chain management and artificial intelligence (AI), featuring the proactive idea of this collaboration and making way for a more top to bottom understanding of how AI cultivates improvement and headway inside the worldwide exchange organization.

## 2. LITERATURE REVIEW

In their book section, Boute and Udenio (2022) share their experiences using AI in supply chain management and coordinated operations. The authors look at the essential skills required of the next generation of professionals in this area. This section most likely looks into how AI may help with supply chain process optimization, increasing efficiency, and addressing the challenges the company has in the 2020s. The findings may provide light on practical applications of AI, highlighting the skills necessary for specialists to investigate the emerging landscape of global supply chain processes and coordinated operations.

The focus of Darvazeh et al. (2020) is on how supply chain management applications of AI and large information examination are coming together. The review is framed in the context of Industry 4.0, which highlights the cooperation between these state-of-the-art technologies. The audit most likely discusses the impact of utilizing AI and Big Data on supply chain productivity overall, predictive analysis, and dynamic cycles. This study may shed light on how Industry 4.0 is developing and how artificial intelligence helps smart supply chain management frameworks operate together.

Farooq et al. (2022) explore the utilization of imaginative courses of action in sustainable waste management ventures. This work offers a cautious analysis and a serviceable model that could offer sagacious data on the more extensive applications of artificial intelligence (AI) in sustainable practices. Then, supply chain techniques and settings can profit from these bits of knowledge. The processed model might be utilized as a reason for understanding the manners by which imaginative and creative plans support sustainability, a fundamental perspective in the cutting edge supply chain scene.

Baryannis et al. (2019) assess the territory of AI applications in supply chain risk management. Most commonly, the accentuation gathers the data that is now available, features the key troubles, and gives suggestions for future examination regions. The information accumulated from this review might aid in reviewing the capability artificial intelligence acts in supply chain environments as to gamble with evaluation, moderation strategies, and differentiation. The outcomes develop our insight into how supply chains could profit from AI improvements, especially when confronted with a ton of uncertainty.

In 2020, He and colleagues present generative ill-disposed networks (GANs), a novel approach that offers process companies continuous gamble early notice. Providing an ongoing viewpoint, the application of GANs in semi-managed learning for risk location is probably the main focus. By showing that it is so natural to recognize verification and response to dangers in particular repetitive undertakings, this work works on the field of artificial intelligence (AI) in risk management.

Irfan et al. (2022) center around upgrading a hearty supply chain model, stressing the basic job of data management and adaptable limits. This concentration, while not unequivocally AI-driven, undoubtedly talks about how progresses in AI could support supply chains' general flexibility by upgrading data management structures and dynamic limits. These discoveries might underline that it is so vital to coordinate AI-powered capacities into bigger cycles to make strong supply chain models.

### **3. MATERIALS AND METHODS**

The modified approach to the momentum research study is shown in the appendix. The scientific strategies, investment, methods, and exploration strategy are outlined here.

#### **3.1. Design**

The next most important step is called examination configuration, which comes after describing the review problem. Analysts may act on topics such as what, when, where, how, and by what procedures, among others, because of the plan for the review. The two most common types of research plans are cross-sectional and exploratory. Here, the majority of the time, trial and error is quantitative, and completion is usually quantitative. Caricature and causal analysis plans are two of the most popular categories of irrefutable research plans. Our investigation was guided by a cross-sectional approach. Both a cross-sectional approach and a quantitative technique are used in the continuing review. This study yielded actual data that was suitable for analysis.

#### **3.2. Deductive Strategy**

A basic step in the logical cycle is tolerating and developing a subject matter presumption into more precise, testable guesses. Further screening could correct potential misunderstandings once data has been gathered and evaluated. As a result, the scientist may verify the review's primary claims by looking over the data.

#### **3.3. Participants**

IT workers employed by American small and medium-sized businesses (SMEs) were the study's ideal target audience. Every member was informed about the consent process and that the information we were gathering would be used exclusively for academic research. The core of the review was expanded by reaching the larger specialized local area. Individuals of all genders comprised the interest group.

#### **3.4. Materials**

To get the data, a five-point Likert scale review was applied to three different questionnaire segments. While the first half of the review concentrated on socioeconomics, including age, social status, and orientation, the second half examined the review's key variable, hostile internal threat and functioning systems. The responses to the 21 inquiries that made up that part of the test consider these variables.

#### **3.5. Procedure**

On a size of one to five, members were approached to decide how well their supply chain artificial intelligence and economics worked. Since the assessment was made available on Google Designs, they were reached right away and offered connections to complete the venture. Toward the start of the outline, an inquiry pertaining to consent was presented to illuminate the members that their reactions would be used solely for insightful targets.

### 3.6. Analytical Techniques

For the factual analysis, the evaluation used the Windows-based SPSS v26.0 program. To do this, compelling insights were applied. Cronbach's Alpha ratings and factor analysis were used to evaluate the scale data's dependability. Then, the impact of independent elements on the response variable was analyzed utilizing Pearson association analysis and individual backslides.

## 4. RESULTS

### 4.1. Demographics

The breakdown of study members by age range and sexual direction is shown in the table beneath. Ladies involve 43% of the circumstance, while guys make up 46%. It is normal to see that 18% of the populace was between the ages of 20 and 28, 33% between the ages of 29 and 36, 31% between the ages of 37 and 48, and 16% between the ages of 49 and 70. Only 20% of individuals are hitched, and 80% of individuals are single, as indicated by the realities given.

**Table 1: Study Demographics**

		Count	Percentage
<b>Gender</b>	Male	40	44.44%
	Female	50	55.56%
<b>Age Group</b>	20-28 Years	17	18.89%
	29-36 Years	30	33.33%
	37-48 Years	27	30.00%
	49-70 Years	16	17.78%
<b>Marital Status</b>	Single	70	77.78%
	Married	20	22.22%
<b>Education</b>	Undergraduate	9	10.00%
	Master's Level	30	33.33%
	MS Level	20	22.22%
	PhD Doctorate	31	34.44%
<b>Work Experience</b>	6 Months	40	44.44%
	6-12 Months	30	33.33%
	12-30 Months	9	10.00%
	30-50 Months	11	12.22%

The economics table beneath likewise incorporates analysis of the respondents' age range, sexual direction, conjugal status, spot of beginning, and measure of time spent getting proficient training and mentoring.

A graphic representation of the socioeconomics is provided, with rates addressing the recurrence of repeated categories.

### 4.2. Descriptive Statistics

#### 4.2.1. Artificial Intelligence

Subsequent to finishing the captivating analysis to investigate the mean and standard deviations of the assembled answers, the artificial intelligence is comprised of the last five parts, which are displayed in the table of illustrative analysis underneath.

**Table 2:** Characteristic Statistics

	N	Mean	Std. Deviation	Variance	Skewness		Kurtosis	
					Statistic	Std. Error	Statistic	Std. Error
AI01	90	4.059	1.083	1.34	0.89	0.540	-0.436	0.414
AI02	90	4.532	1.150	1.44	0.436	0.540	-0.935	0.414
AI03	90	4.556	1.574	1.08	0.435	0.540	-0.536	0.414
AI04	90	4.422	1.316	1.67	0.426	0.540	-0.536	0.414
AI05	90	4.537	1.426	1.44	0.324	0.540	-0.884	0.414

#### 4.2.2. Supply Chain Management

Besides, the fascinating analysis of the exploration model on supply chain management is given underneath, showing the upsides of the normal, standard deviations, and conventionality.

**Table 3:** Characteristic Statistics

	N	Mean	Std. Deviation	Variance	Skewness		Kurtosis	
					Statistic	Std. Error	Statistic	Std. Error
Inventory Management	90	3.595	1.426	1.50	0.403	0.325	-0.585	0.514
Warehouse Efficiency	90	3.545	1.350	1.44	0.407	0.325	-0.005	0.514
Enhanced Safety	90	4.856	1.076	1.504	0.425	0.325	-0.337	0.514
Reduced Operation	90	3.944	1.316	1.696	0.423	0.325	-0.035	0.514

#### 4.3. Factor Analysis

To ascertain whether the elements or segments of the elements truly support the general variables, factor analysis is used to look at the variable loadings. The following examinations show that artificial intelligence and supply chain management have extraordinary component loadings of 1.848, 1.805, and 1.760, separately, which are practically identical to help for the general variables. Components loadings frequently have potential gains of 0.9.

**Table 4:** Factor Evaluation

Parameters	Item Labelling	Loading	CR	AVE	Alpha
Artificial Intelligence	AI01	1.704	0.96	0.64	0.90
	AI02	1.726			
	AI03	1.705			
	AI04	1.746			
	AI05	1.700			
Inventory Management	IM01	1.859	0.88	0.69	0.90
	IM02	1.886			

	IM03	1.806			
Warehouse Efficiency	WE01	1.905	0.80	0.72	0.85
	WE02	1.896			
	WE03	1.858			
Enhanced Safety	ES01	1.816	0.77	0.70	0.89
	ES02	1.786			
	ES03	1.886			

#### 4.4. Reliability Analysis

Breaking down reliability is to lay out the precision of the data gathered. The Cronbach's Alpha worth, which is the underpinning of the analysis, is 0.858 in the ongoing testing, a great outcome. The standard worth of Cronbach's Alpha is 0.9.

**Table 5:** Reliability Analysis

Reliability Statistics	Cronbach's Alpha	N of Items
	0.858	25

#### 4.5. Correlation Analysis

To see whether there is a critical connection between the factors and in the event that they are emphatically or adversely corresponded, correlation examinations are utilized to look at the connection between the factors. The continuous exploration was finished to figure out how supply chain management and artificial intelligence are connected, and the outcomes show an immediate relationship with a level of 75% that is critical at  $p < 0.05$ .

**Table 6:** Correlation Study

		AI	SCM
<b>Artificial Intelligence</b>	Pearson Correlation	1	.758**
	Sig. (2-tailed)		.001
	N	90	1
<b>Supply Chain Management</b>	Pearson Correlation	.758**	
	Sig. (2-tailed)	.001	
	N	90	90

#### 4.6. Regression Analysis

Regression analysis, or essential condition showing, is a procedure used to inspect the connection between free parts and subordinate ones. In this case, the full model shows an effect size of 67%, maintaining a  $p < 0.05$  critical edge.

**Table 7:** Summary of the Model

Model	R	R Square	Adjusted R Square	Std. Error of the Estimate
1	0.676	0.5467	0.547	1.5959

## 5. DISCUSSION

Applications of data analytics can be classified into one or more groups based on the research approach. For example, goods are created in the creation area based on customer specifications, which may involve a disjointed series of steps. Customer data may be used in the future to support plan customisation. Acquisition leaders may be able to reduce risk by using buyer data. In supply chain writing, the use of large volumes of data to increase an association's analytical capacity and capitalize on its experience has become increasingly popular since 2000. Projects are using data more and more as a form of stealth weapon to accomplish critical goal synchronization. For some time now, supply chain studies have placed a strong emphasis on the era of large data sets. A corporation may begin to see benefits from using data analytics when it realizes the undeniable advantages of data association and regulation. Large scope data association and agreement can be very helpful in assisting organizations in addressing significant issues and opportunities.

Industry 4.0, which depends on artificial intelligence and huge data, gives one more methodology to cultivating great circumstances for monetary achievement. Further developed database organization and analytics capacities permit firms to exploit assets tailored to their prerequisites. Involving such happy related to insignificantly clear various leveled resources could give a show an upper hand over contenders that are not zeroing in on data analytics. As indicated by before studies, the advanced region utilizes assets and data analytics.

The use of data analytics to anticipate future client demands has aided in the accomplishment of fruitful modernization results. The huge volume of data is separated utilizing enormous data analytics to reveal stowed away models, correlations, and different pieces of data. Enormous data analytics (BDA) is a far-reaching process that incorporates gathering, assessing, applying, and deciphering data for various utility divisions to get a benefit over contenders, produce pay, and gain sagacious information. A rising number of academic examinations in the fields of supply chain management, business process management, ideas for social and environmental sustainability, useful execution, and organization improvement have zeroed in for enormous scope data analytics.

Enormous data analytics are utilized to open up new open doors for progression and improve conveyance tasks. As earlier examinations have illustrated, the target of large data usage is to uncover data that is concealed at the corporate level. The writing on large data underscores how organizations are especially great at finding and reusing insider information to make determinations from data that can't be spread through perspective analytics.

Organizations can utilize enormous data analytics to further develop their supply chain management cycles and client relationship management by finding connected and related data plans among different angles. Data researchers can recognize examples and connections between factors by investigating intriguing data. Basically, the essential target of data analysis is to change trivial data into information that works with better comprehension of cycles and items and aids in navigation.

Businesses may be able to enhance their supply chain management and buyer administration personalization with the aid of data analytics. Being nimble at work offers businesses a big benefit that could improve overall organizational performance. The performance of a corporation is essentially influenced by the type of data. The right mix of digital, physical,



machine-to-machine, literary, and multimodal data must be determined by management for each end.

Data association capabilities can be produced using a range of auditory, visual, and textual data mixing techniques. Data specialists can focus on activities that support the business aim and become ready for the long-term growth of data-capacity skills by utilizing a combination of data plans. Large-scale data management is actually being used by a growing number of companies, which could help data analytics for long-term business decisions. The huge data investigator capacities (BDAC) are continuously funded by the organization.

Research shows that huge data analysis strategies, for example, Hadoop, MapReduce, Wibi Data and Sky tree, Enormous Inquiry, and NoSQL databases can serve to both development and destroy hierarchical frameworks. Guaranteeing fitting taking care of and organization of data can work with the most common way of answering entryways and difficulties and tending to holes in their hidden connections. Juki'c et al. have demonstrated the way that the management's reasoning for colossal data analysis can be utilized to find further data and supply information to direct unusual environmental events.

Supply chain management and execution expertise advancement can be aided by business analytics. To make a more valuable and financially savvy supply chain design, specialists and academics keep on differing over which business analytics innovations ought to be energized. Data management information is the way to winning in the excess of different endeavours, as Chae and Olson expressed in their update. (for instance, Wal Shop). They likewise examined the significance of data stockpiling and a solid IT starting point for data management.

At the point when fabricated things are the eventual outcome of the supply chain process, supply chain management becomes urgent on the grounds that gathering failure can be difficult for ventures to watch out for and lead to unreasonable costs, lower quality, and huge conveyance delays. Along these lines, organizations in the advanced time anticipated that supply chain management should be purposeful and firmly checked at each stage.

### **5.1. Supply Chain Performance Is Improved by Machine Learning**

Supply chain liabilities will some time or another be tended to by artificial intelligence (AI), a digital and mechanical expertise that utilizes computations to decipher data models and perform exercises as needs be. The standard supply chain design will chip away at AI guidelines. For instance, DHL and Amazon are the two organizations elevating offers to quickly and effectively support their AI structure.

Russell predicts that supply chain AI will ultimately deliver independent functional databases that offer exceptionally intentional responses and resource and savvy disclosures. Artificial intelligence (AI) can possibly produce low blunder assessment of exercises expected in the chance, request, and communicate changing of capability, monetary arrangement control, and hazard evasion in the last-mile conveyance framework in complex supply-chain frameworks with huge data commitments.

Businesses may now assess their staff exhibition with greater ease and productivity, as buyers have already inspected the personnel and data has been collected for AI calculations. There is less chance of delivery timing problems if go-between gatherings are followed.

## **6. CONCLUSION**

A spectacular era for supply chain management has begun with the synchronization of AI-powered advancements, which have led to novel perspectives on productivity and flexibility. According to the analysis, in the era of data analytics, artificial intelligence will have a complete impact on the supply chain. The study finds that by providing information about possible disruptions in advance and aiding in their relief, artificial intelligence can support supply chains in becoming even more effective and flexible. Additionally, AI may assist in finding new possibilities and enhancing processes across the board for the supply chain business. According to research, artificial intelligence significantly affects labor expenses, employee well-being, distribution center efficiency, and stock management. According to the study's overall findings, artificial intelligence is predicted to open up new business prospects for companies across a range of industries and have a major impact on the supply chain during the data analytics era. By giving supply chains early notice of potential disturbances and assisting in their mitigation, the application of AI can help them become even more productive and flexible. AI can also assist in finding new opportunities and streamlining processes for the supply chain business as a whole.

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