Artificial Intelligence as a Catalyst for Supply Chain Evolution: A Multi-Case Thematic Study

Harshita Jain

Research Scholar,
Department of Commerce,
Allahabad Degree College,
University of Allahabad, Prayagraj

Prof. Dinesh Kumar
Professor,
Department of Commerce,
Allahabad Degree College,
University of Allahabad, Prayagraj

Abstract: This study interrogates the transformative infusion of Artificial Intelligence (AI) into Supply Chain Management (SCM), with particular emphasis on its potential to elevate efficiency, fortify resilience, and advance sustainability. Employing a qualitative, exploratory design, the research adopts a multiple-case study methodology in conjunction with thematic synthesis to examine five multinational corporations—Coca-Cola, ITC, Procter & Gamble, Nestlé, and Unilever—that have strategically deployed AI across procurement, logistics, inventory control, and sustainability practices. The findings reveal heterogeneous adoption pathways—spanning Coca-Cola's algorithmic procurement automation, ITC's end-to-end platformization, P&G's enterprise-wide data integration, Nestlé's scenario-driven network modeling, and Unilever's IoTenabled eco-efficiency—yet convergence emerges in three cardinal domains: systemic efficiency, adaptive resilience, and emergent sustainability. Theoretically, the study contributes by delineating distinct archetypes of AI-enabled transformation in supply chains, thereby extending the discourse on digitalization in operations management. From a managerial standpoint, the research offers concrete managerial implications, emphasizing the alignment of AI adoption with organizational priorities, resource endowments, and digital maturity as prerequisites for unlocking strategic advantage. Notwithstanding its reliance on secondary data and focus on resource-intensive enterprises, the study positions AI as a strategic inflection point in SCM evolution and calls for future inquiry into its diffusion within small-to-medium enterprises, low-margin operational contexts, and the attendant ethical and socio-economic ramifications of technologically mediated supply chains.

Keywords: Artificial Intelligence, Supply Chain Management, Cross-case Analysis, Resilience.

1. Introduction

1.1. Outlining Artificial Intelligence with Supply Chain Management

From the last decade, the use of technology has enhanced the numerous business processes through artificial intelligence, one of which is a supply chain management. The inception of artificial intelligence is marked in 1955 when John McCarthy coined it by defining as "the science and engineering of making intelligent machines". Investigating how the replacement of wage employment by AI affects life's meaning, proposing that while traditional sources are diminishing, [1] meaning can still be obtained through social involvement and access to meaningful content. Artificial intelligence is difficult to define since it combines human-made origins and the concept of intelligence, unlike natural intelligence; it is created by design, producing artifacts that demonstrate intelligent behavior using artificial processes [2]. Linguistic meaning theories, their paradoxes, and AI's involvement in meaning-making, emphasizing AI's impact on communication, translation, and language

acquisition using contextual and philosophical perspectives [3] also plays a vital role. With the demand of accelerated transportation, supply chain management emerges as a crucial point. Consequently so implementing an efficient supply chain collaboration necessitates trust, strategic alignment, and cultural understanding, and proposes segmentation by consumer behavior as a better paradigm than relying solely on technology [4]. Highlighting essential individual and organizational competences in supply chain management, [5] has demonstrated their positive impact on collaboration, strategic alliances, and company performance, thereby connecting human capital to competitive advantage.

Marketing plays vital role in supply chain integration, providing a framework for implementation, and actual applications which will also guide future research.[6] Necessity for integrated supply chain management across strategic, tactical, and operational levels, stressing resource coordination to enhance customer service, cut costs, and achieve a competitive advantage is to be addressed.[7] Artificial Intelligence disruptive impact in supply chains, including autonomous systems, predictive analytics, sustainability, and cooperation, helps real-time decisions, increased efficiency, and global competitiveness in a connected economy.[8] Following COVID, supply chains are facing inventory, demand forecasting, and sustainability concerns. Artificial Intelligence, automation help to optimize operations, cut costs, increase efficiency, and enable environmentally sensitive, data-driven decision-making.[9] Artificial Intelligence has the potential to optimize supply chain processes—from design to delivery—by increasing efficiency, lowering costs, and minimizing risks, while also identifying previous research as a platform for future advances.[10]

1.2. Role of AI in SCM

Artificial intelligence (AI) is reshaping supply chain management (SCM) by enhancing efficacy, responsiveness, and analytical skills. Companies that incorporate AI into various supply chain processes can enhance operations, cut costs, and respond more proficiently to changing market conditions. Demand forecasting is a important use of artificial intelligence in supply chain management. AI network examine massive volumes of past and real-time data to exactly estimate buyer demand, permitting firms to sustain perfect stock levels, avoid stockouts, and prevent excess inventory. This results in more efficient inventory management and higher customer satisfaction.AI also improves supplier selection and management by automating the examination process using performance parameters like cost, quality, delivery speed, and sustainability. This assures that firms work with the most dependable and suitable suppliers, lowering risks and elevating overall supply chain reliability. In logistics and transportation, artificial intelligence assist in route optimization, delay prediction, and more efficient fleet management. This not only lowers operational expenses, but it also helps to promote sustainability by reducing fuel use and emissions. Furthermore, AI helps strategic planning by providing awareness into market trends, customer behavior, and future disturbance. These insights aid firms to make more informed decisions, respond swiftly to changes, and maintain a competitive advantage in the global marketplace.

AI systems also help to implement green supply chain practices by identifying ways to reduce waste and energy consumption, which aligns supply chain operations with environmental goals. Fig 1 describes the benefits of Artificial Intelligence in SCM.

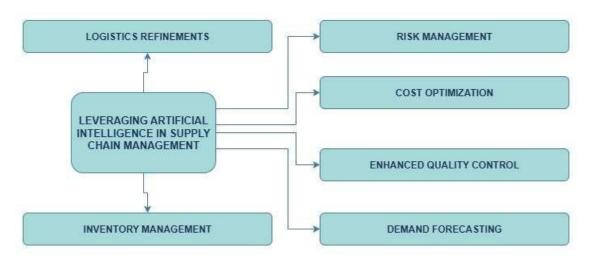


Figure 1: Leveraging Artificial Intelligence in Supply Chain Management

2. Literature Review

AI integration in supply chains highlights improved efficiency, innovation, and sustainability while addressing challenges like ethics and skills, and recommending strategic and policy-driven solutions.[11] AI transforms supply chains by improving forecasting, agility, and resilience via machine learning, analytics, and automation, while also addressing issues such as data integration, ethics, and labor preparation.[12] AI transforms predictive supply chain management by improving demand forecasting, inventory optimization, and responsiveness through data analytics and automation, all while addressing integration, data quality, and ethical concerns.[13] AI applications in supply chains (2021-2024), highlights improvements in resilience, optimization, and sustainability, as well as addressing ethical and scalability concerns and identifying future research routes.[14] The impact of artificial intelligence on supply chain performance, focus mainly on strategies that improve agility, efficiency, and responsiveness. Scopus data is used to assess major areas, subfields, and research trends.[15] This study examines actual studies on artificial intelligence in supply chains, highlighting implementation problems, integration requirements, and performance implications, as well as offering a realistic framework for future research and managerial insights.[16] Investigating how AI and ChatGPT improve supply chain performance, sustainability, and data monetization by boosting transparency, decision-making, and traceability, as proven by the U.S. tuna supply chain case study.[17] An overview of artificial intelligence (AI) in supply chain management, stressing its transformational impact on planning, scheduling, optimization, and transportation, as well as a critical analysis of new AI-driven research and applications in SCM.[18] Examining AI's role in sustainable supply chain management, focusing on information management, data handling, and decision-making, and proposes a framework for research, policy, and practice.[19] A thorough framework of how AI is incorporated into supply chain management, examining techniques such as machine learning and predictive analytics. A case study shows the benefits, constraints, and real-world applicability of scaled solutions to improve efficiency, resilience, and creativity in global supply chains. [20] Artificial intelligence (AI) strives to automate tasks that need human intelligence by combining sensing, manipulation, reasoning, communication, and learning. Artificial intelligence systems use a knowledge base and heuristics to solve issues through goal-directed search, adjusting to unclear or ambiguous data. Diagnostics, customization, and intelligent decision-making are some of the key uses.[21] This paper proposes a hypothesis of AI job replacement in services, focusing on task-level substitution across four intelligences: mechanical, analytical, intuitive, and empathetic. AI advances gradually, first supplementing and ultimately replacing human tasks. As analytical activities become more automated, intuitive and emotional talents become increasingly important, creating both innovation opportunities and job hazards. [22] Senior professionals investigate supply chain management (SCM)

DOI: 10.55041/IJSREM52737 © 2025, IJSREM https://ijsrem.com Page 3 practices in U.S. organizations using survey data. Correlation and regression research reveal that, despite rare failures, integrated SCM solutions greatly improve business performance. Effective SCM is an important strategic tool for gaining a competitive edge.[23] The evolution of supply chain management from traditional purchasing and logistics to a strategic, holistic approach. It clarifies terminology, explores key strategies, and examines conditions enabling effective supply chain management.[24] Examining the literature on the role of information technology (IT) in supply chain management (SCM), categorizing major elements and providing insights. It creates a framework for IT applications in SCM, making recommendations and identifying future research areas to improve flexibility, responsiveness, and competitiveness.[25]

3. RESEARCH GAP AND CONSTRAINTS ON AI BASED SCM

3.1. Technology Adoption Gap

Tier 2 and Tier 3 cities face various challenges to administer Artificial Intelligence (AI) in supply chain management. Restricted digital infrastructure, inadequate internet access, and a scarcity of experienced workers disrupt the incorporation of innovative technology. Small and medium-sized businesses, which influence these regions, frequently lack the financial means and understanding to invest in AI solutions. Compared to major cities, there is limited access to training, data analytics platforms, and government incentives, resulting in slower technological growth. These cities also have outdated systems and fragmented supply chain networks, making AI implementation challenging. As a result, organizations continue to depend on manual processes, which decreases productivity and innovation. Bridging the digital divide involves policy assistance, infrastructural development, and educational programs to improve AI readiness in smaller communities.

3.2. Margins Restrict Innovation

Many supply chain management (SCM) corporations have limited profit margins and manage low-volume supplier networks, posing a considerable hurdle to AI integration. These businesses commonly lack the financial resources to invest in costly AI infrastructure, software, and qualified workers. The high initial costs and long return-on-investment timelines make AI adoption unpleasing or unfeasible. Furthermore, low-volume processes provide inadequate data, decreasing the efficiency of AI models that depend on large datasets for optimization and prediction. These businesses are often more concerned with immediate operational survival than long-term digital transformation, which further slows technological adoption. Without scalable and affordable AI solutions, low-margin SCM enterprises would struggle to keep up with digital improvements, potentially expanding the gap between giant, tech-enabled corporations and smaller, resource-constrained supply chain participants.

4. Research Methodology

This study adopts a qualitative and exploratory research model, employing a multiple-case study design combined with thematic synthesis to catechize the transformative infusion of Artificial Intelligence (AI) into coeval Supply Chain Management (SCM). Five multinational conglomerates—Coca-Cola, ITC, Procter & Gamble (P&G), Nestlé, and Unilever—were strategically and deliberately selected on account of their demonstrable and divergent use of AI technologies across procurement optimization, logistics orchestration, inventory rationalization, and sustainability improvement. The investigation is anchored in meticulous secondary data triangulation, drawing upon peer-reviewed scholarly contributions, corporate disclosures, industry white papers, and authoritative business reportage to safeguard reliability and epistemic credibility. The collected evidence was meticulously coded and subjected to a layered thematic synthesis, whereby preliminary descriptive categories—such as efficacy maximization, resilience fortification, risk reduction, and

sustainability integration—were progressively abstracted into higher-order analytical constructs. Through a comparative cross-case interrogation, the study explicates both convergences and divergences in corporate praxis, offering refined insights into the manifold modalities by which AI is revising global supply chain architectures. By entrenching emergent findings within established theoretical frameworks, the analysis ensures conceptual rigor and augments the discourse at the intersection of technology and supply chain scholarship. While circumscribed by its reliance on secondary data, the methodology furnishes a robust, systematic, and intellectually generative framework for extrapolating comparative insights into AI's capacity to reconfigure efficiency, adaptability, and sustainability within volatile and hyper-competitive business ecosystems.

5. Case Study Analysis

To understand the practical implications of Artificial Intelligence (AI) integration in Supply Chain Management (SCM), this study examines five multinational corporations that have strategically embraced AI technologies. Each case provides insights into the application of AI across procurement, logistics, inventory management, and sustainability practices.

5.1. Coca-Cola: AI-Powered Procurement with Keelvar

Coca-Cola has significantly incorporated Keelvar's AI-powered sourcing platform to enhance procurement efficiency. The system analyzes vendor performance, identifies supply chain disruptions, and facilitates real-time recommendations through automated bidding and data cleansing. This adoption has reduced manual effort, expedited supplier selection, and improved decision-making accuracy. Coca-Cola's approach reflects a broader shift in procurement towards intelligent automation, risk monitoring, and contract analysis, strengthening resilience and agility in global sourcing [26].

5.2. ITC: Digital-First Supply Chain Transformation

Under its "Digital First" strategy, ITC has implemented AI, Machine Learning (ML), and IoT-driven solutions through its proprietary platform Project Zen. This integration synchronizes manufacturing, sales, demand planning, and sourcing. AI-enabled predictive stock management and real-time inventory optimization have markedly enhanced ITC's resilience and responsiveness to global disturbance. By combining diversification, risk mitigation, and data-driven insights, ITC describes how AI can empower FMCG supply chains to remain agile in volatile markets.[27]

5.3. Procter & Gamble (P&G): KNIME-Based Data Integration

P&G collaborated with PhData to deploy an AI-powered analytics system using the KNIME platform to address fragmented data systems across manufacturing, marketing, quality, and supply chain operations. By integrating over 22,000 components and 5,000 products into real-time dashboards, the platform enabled predictive forecasting, risk monitoring, and supply visibility. This initiative enhanced P&G's flexibility, robustness, and forecasting accuracy, while decreasing manual labor and enabling proactive responses to disruptions, thereby strengthening supply chain adaptability.[28]

5.4. Nestlé: AI-Driven Inventory and Network Optimization

Nestlé partnered with Coupa's AI-powered modeling tools to modernize its supply chain through inventory optimization and scenario-based decision-making. Advanced analytics allowed for improved demand forecasting, replenishment planning, and safety stock optimization. The use of "what-if" simulations eased the evaluation of disruptions and structural changes, including adjustments in distribution center locations. This

approach elevates Nestlé's agility, efficacy, and resilience, aligning its supply chain operations with growing buyer demand and global uncertainties.[29]

5.5. Unilever: AI and IoT for Sustainable Operations

Unilever collaborated with H2Ok Innovations under Horizon3 Labs to integrate AI and IoT technologies into its food manufacturing processes. The system monitors liquid cleaning operations in real time, replacing manual sampling with sensor-based data. AI analytics optimized detergent usage, water consumption, and cleaning times, resulting in a 10% reduction in utilities, 20% faster cleaning cycles, and annual savings of €100,000. This initiative highlights how AI enhances both sustainability and operational efficiency, with expansion planned across 35 sites worldwide.[30]

6. Cross Case Comparative Analysis

The comparative analysis synthesizes insights from the five case studies—Coca-Cola, ITC, P&G, Nestlé, and Unilever—across four thematic dimensions: efficiency, resilience, sustainability, and digital integration. Table 1 presents a structured overview of company-specific outcomes, followed by a narrative discussion of convergences and divergences.

Table 1: Cross Case Comparative Analysis of AI adoption in SCM

| Company | Efficiency | Resilience | Sustainability | Digital Integration |
|-----------|-------------------------|-----------------------|------------------------|-------------------------|
| Coca-Cola | Automated bidding | Vendor analytics and | Indirect ecological | Procurement-focused |
| | and supplier selection | disruption alerts | gains via streamlined | AI automation and |
| | reduced cycle times | strengthened | procurement | data cleansing |
| | and manual effort | procurement | | |
| | | resilience | | |
| ITC | Project Zen | Diversification | Eco-efficiency | End-to-end supply |
| | synchronized | combined with AI | implied through | chain digital platform |
| | demand, production, | insights improved | optimized planning | (Project Zen) |
| | and sourcing, | agility | | |
| | improving stock | | | |
| | accuracy | | | |
| P&G | KNIME dashboards | Unified cross- | Sustainability implied | Enterprise-wide |
| | integrated 22k | functional data | via planning accuracy | analytics fabric |
| | components and 5k | improved forecasting | | across functions |
| | products, cutting | and adaptability | | |
| | bottlenecks | | | |
| Nestle | Coupa analytics | Scenario-based | Decrease transport | Model-driven |
| | optimized inventory, | planning enabled | inefficiencies and | decisioning with |
| | safety stock, and lead | network | stock waste | "what-if" simulations |
| | times | reconfiguration under | | |
| | | disruption | | |
| Unilever | AI/IoT cleaning reduced | Sensor-based | Quantified eco- gains: | Edge-level AI and IoT |
| | utilities by 10% and | monitoring stabilized | €100k annual savings, | integration for process |
| | cleaning | production processes | scalable to 35 sites | optimization |
| | time by 20% | | | |
| | | | | |

The table highlights that efficiency improvements were pervasive, though operational nodes varied: Coca-Cola in procurement, ITC in synchronized planning, P&G in data consolidation, Nestlé in inventory optimization, and Unilever in process operations. In terms of resilience, P&G and Nestlé described the most advanced predictive and scenario-based capacities, while Coca-Cola and ITC focused on risk reduction and agility, and Unilever emphasized process reliability. Sustainability result were strongest and most quantifiable in Unilever, while other firms achieved indirect or implied ecological benefits through efficiency gains. Finally, digital integration pathways differed significantly: P&G and ITC emphasized enterprise-wide integration, Nestlé pursued model-driven analytics, Coca-Cola concentrated on procurement-specific automation, and Unilever deployed IoT-edge intelligence.

Overall, the comparative analysis suggests that while AI integration strategies are highly context-dependent, they converge on three result: efficiency as the immediate gain, resilience as the strategic gain, and sustainability as an emerging differentiator.

7. Discussion

The cross-case analysis emphasize that Artificial Intelligence (AI) serves as a catalyst for efficiency, resilience, and sustainability, although through significantly different evolutionary pathways. Efficiency emerged as the most immediate and pervasive gain, though its focus varied: Coca-Cola achieved procurement acceleration through algorithmic bidding, ITC orchestrated end-to-end synchronization via its digital platform, P&G consolidated fragmented datasets into an enterprise-wide analytics fabric, Nestlé optimized inventories and network flows through scenario-based modeling, and Unilever realized tangible process efficiencies through IoT-enabled automation. These results support existing research on AI as a tool for operational optimization and outspread the conversation by demonstrating the various ways efficiency exhibit itself at the tactical, strategic, and operational levels.

Resilience appears as a strategic dividend, yet the pathways diverged: Coca-Cola and ITC fortified resilience through supplier-risk surveillance and diversification, P&G and Nestlé deployed predictive foresight and scenario testing, while Unilever emphasized operational continuity through real-time process stabilization. Collectively, these cases suggest that resilience is not rigid but constituted through dual logics of anticipatory intelligence and structural adaptability, each contingent upon organizational orientation and resource endowment.

Sustainability outcomes were most conspicuous in Unilever, which quantified ecological and financial benefits, while the other firms delivered sustainability implicitly through waste reduction and efficiency spillovers.

Finally, the analysis illuminates the pathway-dependent nature of AI integration. P&G and ITC personify enterprise-wide digital fabrics, Nestlé advances model-centric decision analytics, Coca-Cola pursues function-specific excellence in procurement, and Unilever leverages edge-level IoT intelligence. In summary, even though adoption mechanisms vary, AI's potential to promote systemic efficiency, adaptive resilience, and emergent sustainability positions it as a key factor in gaining a competitive edge and undergoing structural renewal in unstable supply chain ecosystems.

8. Conclusion

This study demonstrates that Artificial Intelligence (AI) is refurbishing supply chain management by stimulating efficiency, resilience, and sustainability, though through diverse adoption trails. AI adoption is intrinsically pathway-dependent but has unified consequences, as demonstrated by Coca-Cola's procurement focus, ITC's platformization, P&G's data integration, Nestlé's model-driven planning, and Unilever's IoT-edge solutions.. The findings contribute to theory by recognizing multiple archetypes of AI integration and to practice by highlighting the need to align adoption strategies with organizational priorities and resource contexts. While limited by reliance on secondary data and the focus on large enterprises, the study underscores AI as a strategic enabler of transformation in global supply chains and calls for future research into its diffusion among smaller, resource-constrained firms and its ethical and societal implications.

9. Managerial Implications

The findings of this study hold several implications for practitioners seeking to entrench Artificial Intelligence (AI) within supply chain operations figure 2 describe a pictorial representation of the same and are discussed below:



- I.Align AI adoption with strategic priorities Companies should locate their most critical pain points—procurement, inventory, logistics, or sustainability—and adopt AI along a pathway that directly addresses these priorities, rather than pursuing technology for its own sake.
- II. Invest in data integration and governance As shown by P&G and ITC, resilient and predictive supply chains require vigorous data ecosystems. Managers should prioritize integrating scattered datasets and ensuring data quality before scaling AI applications.
- III. Leverage efficiency for resilience and sustainability Efficiency gains achieved through AI (e.g., decrease waste, optimized planning, or quick processes) can be extended into resilience and sustainability benefits if managers consciously measure and track these outcomes.
- IV. Adopt scalable and modular solutions For firms with constrained resources, smaller-scale or modular AI applications (e.g., procurement automation) can provide immediate value while laying the foundation for broader transformation.

V. Balance technological adoption with human capabilities – AI integration should be accompanied by workforce training, change management, and cross-functional collaboration to guarantee that technology complements human decision-making rather than replacing it.

Collectively, these implications underscore that successful AI adoption in supply chains requires strategic, data readiness, and organizational alignment. Managers who treat AI not merely as a digital tool but as a strategic enabler of adaptability and competitiveness will be best positioned to thrive in volatile and sustainability-driven markets.

References:

- [1]: Knell, S., & Ruther, M. (2024). Artificial intelligence, super efficiency and the end of work: a humanistic perspective on meaning in life. *AI and Ethics*, 4(2), 363-373.
- [2]: Fetzer, J. H. (1990). What is artificial intelligence? In *Artificial intelligence: Its scope and limits* (pp. 3-27). Dordrecht: Springer Netherlands.
- [3]: Afzaal, M., Ahmad, S., Imran, M., & Xiangtao, D. (2020). Artificial intelligence, context, and meaning making in language: A rationalization approach. *International Journal of Future Generation Communication and Networking*, 13(3), 115-122.
- [4]: Barratt, M. (2004). Understanding the meaning of collaboration in the supply chain. *Supply Chain Management: an international journal*, *9*(1), 30-42.
- [5]: Barnes, J., & Liao, Y. (2012). The effect of individual, network, and collaborative competencies on the supply chain management system. *International journal of production economics*, 140(2), 888-899.
- [6]: Lambert, D. M., & Cooper, M. C. (2000). Issues in supply chain management. *Industrial marketing management*, 29(1), 65-83.
- [7]: Stevens, G. C. (1990). Successful supply-chain management. Management Decision, 28(8), 3-8.
- [8]: Madancian, M., Taherdoost, H., Javadi, M., Khan, I. U., Kalantari, A., & Kumar, D. (2023, November). The impact of artificial intelligence on supply chain management in modern business. In *The International Conference on Artificial Intelligence and Smart Environment* (pp. 566-573). Cham: Springer Nature Switzerland.
- [9]: Dwivedi, D. N. (2024). The use of artificial intelligence in supply chain management and logistics. In *Leveraging AI and Emotional Intelligence in Contemporary Business Organizations* (pp. 306-313). IGI Global Scientific Publishing.
- [10]: Singh, S. P., Rawat, J., Mittal, M., Kumar, I., & Bhatt, C. (2022). Application of AI in SCM or Supply Chain 4.0. *Artificial Intelligence in Industrial Applications: Approaches to Solve the Intrinsic Industrial Optimization Problems*, 51-66.
- [11] Eyo-Udo, N. (2024). Leveraging artificial intelligence for enhanced supply chain optimization. *Open Access Research Journal of Multidisciplinary Studies*, 7(2), 001-015.
- [12] Odumbo, O. R., & Nimma, S. Z. (2025). Leveraging Artificial Intelligence to Maximize Efficiency in Supply Chain Process Optimization. *Int J Res Publ Rev*, 6(1), 3035-3050.
- [13] Nweje, U., & Taiwo, M. (2025). Leveraging Artificial Intelligence for predictive supply chain management, focus on how AI-driven tools are revolutionizing demand forecasting and inventory optimization. *International Journal of Science and Research Archive*, 14(1), 230-250.
- [14] Teixeira, A. R., Ferreira, J. V., & Ramos, A. L. (2025). Intelligent supply chain management: A systematic literature review on artificial intelligence contributions. *Information*, 16(5), 399.
- [15] Mohsen, B. M. (2023). Impact of artificial intelligence on supply chain management performance. *Journal of Service Science and Management*, 16(1), 44-58.
- [16] Culot, G., Podrecca, M., & Nassimbeni, G. (2024). Artificial intelligence in supply chain management: A systematic literature review of empirical studies and research directions. *Computers in Industry*, 162, 104132.

- [17] Rathor, K. (2023). Impact of using artificial intelligence-based chatgpt technology for achieving sustainable supply chain management practices in selected industries. *International Journal of Computer Trends and Technology*, 71(3), 34-40.
- [18] Helo, P., & Hao, Y. (2022). Artificial intelligence in operations management and supply chain management: An exploratory case study. *Production Planning & Control*, 33(16), 1573-1590.
- [19] Yadav, A., Garg, R. K., & Sachdeva, A. (2024). Artificial intelligence applications for information management in sustainable supply chain management: A systematic review and future research agenda. *International Journal of Information Management Data Insights*, 4(2), 100292.
- [20] Danach, K., El Dirani, A., & Rkein, H. (2024). Revolutionizing Supply Chain Management with AI: A Path to Efficiency and Sustainability. *IEEE Access*.
- [21] Williams, C. (1983, August). A brief introduction to artificial intelligence. In *Proceedings OCEANS'83* (pp. 94-99). IEEE.
- [22] Huang, M. H., & Rust, R. T. (2018). Artificial intelligence in service. *Journal of service research*, 21(2), 155-172.
- [23] Tan, K. C. (2002). Supply chain management: practices, concerns, and performance issues. *Journal of Supply Chain Management*, 38(4), 42-53.
- [24] Tan, K. C. (2001). A framework of supply chain management literature. European journal of purchasing & supply management, 7(1), 39-48.
- [25] Gunasekaran, A., & Ngai, E. W. (2004). Information systems in supply chain integration and management. *European journal of operational research*, 159(2), 269-295.
- [26] Goldman, S. (2022, June 6). *How AI helps Coca-Cola boost supply chain procurement. VentureBeat.* https://venturebeat.com/ai/how-ai-helps-coca-cola-boost-supply-chain-procurement
- [27] Pandey, A. (2024, November 29). Digital is at core of everything we do at ITC, says Executive Director, B Sumant. The Economic Times. https://economictimes.indiatimes.com/small-biz/trade/exports/insights/digital-is-at-core-of-everything-today-we-do-at-itc-says-executive-director-b-sumant/articleshow/115770938.cms?from=mdr
- [28] DeNittis, N. (2024, February 5). Artificial intelligence at Procter & Gamble. *Emerj Artificial Intelligence Research*. https://emerj.com/artificial-intelligence-at-procter-gamble/
- [29] Buck, S. (2022, November 16). *Designing for supply chain resilience with Nestlé. Coupa.* https://www.coupa.com/blog/designing-for-supply-chain-resilience-nestle/
- [30] Unilever. (2025, May 15). *Unilever's 100+ Accelerator partnership unlocks AI innovation across supply chain. Unilever.* https://www.unilever.com/news/news-search/2025/unilevers-100-accelerator-partnership-unlocks-ai-innovation-across-supply-chain/