



International Journal of Management & Entrepreneurship Research
P-ISSN: 2664-3588, E-ISSN: 2664-3596
Volume 6, Issue 5, P.No.1607-1624, May 2024
DOI: 10.51594/ijmer.v6i5.1126
Fair East Publishers
Journal Homepage: www.fepbl.com/index.php/ijmer



Enhancing manufacturing productivity: A review of AI-Driven supply chain management optimization and ERP systems integration

Olubunmi Adeolu Adenekan¹, Nko Okina Solomon², Peter Simpa³, & Scholar Chinenye Obasi⁴

¹Independent Telecommunications Engineer and Data Analyst, UK

²Marshall University Huntington West Virginia.

US Department: Environmental Health and Safety, USA

³Faculty of Science and Engineering, University of Hull, UK

⁴University of South Wales, UK

Corresponding Author: Olubunmi Adeolu Adenekan

Corresponding Author Email: adeoluadenekan47@gmail.com

Article Received: 25-01-24

Accepted: 05-04-24

Published: 12-05-24

Licensing Details: Author retains the right of this article. The article is distributed under the terms of the Creative Commons Attribution-Non Commercial 4.0 License (<http://www.creativecommons.org/licences/by-nc/4.0/>), which permits non-commercial use, reproduction and distribution of the work without further permission provided the original work is attributed as specified on the Journal open access page.

ABSTRACT

This abstract delves into the realm of manufacturing productivity enhancement through the review of AI-driven supply chain management (SCM) optimization and Enterprise Resource Planning (ERP) systems integration. As industries strive for operational excellence, the convergence of artificial intelligence (AI) and supply chain management emerges as a transformative force in driving efficiency, agility, and competitiveness. Through a comprehensive analysis, this abstract examines the synergistic relationship between AI-driven SCM optimization and the integration of ERP systems, elucidating their collective impact on manufacturing productivity. AI-driven SCM optimization encompasses a spectrum of technologies and methodologies, including predictive analytics, machine learning, and autonomous decision-making systems, aimed at optimizing various facets of the supply chain, from demand forecasting and inventory management to production planning and logistics

optimization. By harnessing the power of AI, manufacturers can enhance forecasting accuracy, reduce lead times, optimize inventory levels, and mitigate supply chain disruptions, thereby improving overall productivity and customer satisfaction. Integration of ERP systems plays a complementary role in manufacturing productivity enhancement by providing a centralized platform for data management, process automation, and cross-functional collaboration. Through seamless integration with AI-driven SCM optimization tools, ERP systems enable real-time data exchange, actionable insights, and end-to-end visibility across the supply chain, facilitating informed decision-making and agile response to dynamic market conditions. Drawing insights from case studies and industry examples, this abstract highlights best practices, challenges, and emerging trends in AI-driven SCM optimization and ERP systems integration. Strategies for successful implementation, including organizational readiness assessment, change management, and stakeholder engagement, are discussed to guide manufacturers in unlocking the full potential of these transformative technologies. In conclusion, the convergence of AI-driven SCM optimization and ERP systems integration offers a compelling pathway for enhancing manufacturing productivity, driving operational excellence, and sustaining competitive advantage in the digital era..

Keywords: Artificial Intelligence, Supply Chain Management, Enterprise Resource Planning, Manufacturing Productivity, AI Integration, Predictive Analytics.

INTRODUCTION

Manufacturing productivity remains a cornerstone of economic growth and competitiveness in the global market (Herman, 2016; Mehrotra, 2020; Ninduwezuor-Ehiobu et al., 2023). It embodies the efficiency and effectiveness of transforming raw materials into finished goods, a process increasingly reliant on sophisticated supply chain management (SCM) and Enterprise Resource Planning (ERP) systems. SCM focuses on the oversight of materials, information, and finances as they move from supplier to manufacturer to wholesaler to retailer to consumer (Uduafemhe et al., 2023). On the other hand, ERP systems integrate core business processes, including inventory and order management, accounting, human resources, and customer relationship management, into a single system to streamline processes and information across the organization (Kurbel, 2013; Lenny Koh, Saad, & Arunachalam, 2006). These systems form the backbone of modern manufacturing operations, facilitating improved decision-making, greater operational efficiency, and enhanced productivity (Ntuli et al., 2024).

Despite the critical role of SCM and ERP systems in modern manufacturing, several challenges hinder their full potential in enhancing manufacturing productivity (Ewim et al., 2023). These include the complexity of global supply chains, the dynamic nature of market demands, data silos, and the integration of disparate systems and technologies. Moreover, traditional SCM and ERP systems often lack the flexibility and adaptability required to respond to real-time changes and disruptions in the supply chain, leading to inefficiencies, increased costs, and delayed responses to market demands (Giannakis, Spanaki, & Dubey, 2019). The integration of SCM and ERP systems also presents significant challenges, including data consistency, interoperability, and the need for real-time data analytics and decision-making capabilities.

This paper aims to critically examine how integrating artificial intelligence (AI) into SCM and ERP systems can address these challenges and significantly enhance manufacturing productivity. AI-driven SCM optimization and ERP systems integration promises to bring about

a new era of efficiency and effectiveness in manufacturing operations. By leveraging AI technologies such as machine learning, natural language processing, and predictive analytics, manufacturers can achieve greater visibility and control over their supply chains, improve demand forecasting, streamline operations, and make more informed decisions (Ehimare et al., 2023). This review will cover a broad spectrum of AI-driven innovations in SCM and ERP systems integration, focusing on key areas such as demand forecasting, inventory management, production planning, quality control, and customer relationship management. It will explore the latest advancements in AI technologies and their applications in optimizing supply chain operations and integrating ERP systems. The review will also explore the challenges and best practices in implementing AI-driven solutions, drawing insights from recent case studies and research findings.

The integration of AI into SCM and ERP systems holds significant promise for transforming manufacturing productivity. By enabling more accurate demand forecasting, optimizing inventory levels, improving supply chain visibility, and facilitating the seamless integration of various business processes, AI-driven solutions can help manufacturers reduce waste, lower costs, and respond more swiftly to market changes (Hassan, Wahab, & Nor, 2023; Javaid, Haleem, Singh, & Suman, 2022). This review will provide valuable insights into the state-of-the-art in AI-driven SCM optimization and ERP systems integration, highlighting the potential benefits, challenges, and future directions in this rapidly evolving field (Suku et al., 2023). Through a comprehensive examination of current trends and developments, this paper seeks to contribute to the ongoing discourse on enhancing manufacturing productivity through technological innovation, offering a roadmap for researchers, practitioners, and policymakers.

Theoretical Framework

Supply Chain Management (SCM)

Supply Chain Management (SCM) is a comprehensive approach to managing the flow of goods, information, and finances, from the procurement of raw materials to the delivery of finished products to the end consumer (Larson & Rogers, 1998; LeMay, Helms, Kimball, & McMahon, 2017). It encompasses various processes such as sourcing, production, logistics, and the information systems needed to coordinate these processes. SCM is critical to manufacturing productivity as it directly impacts the efficiency of production processes, the cost of goods sold, and the ability to meet customer demand in a timely manner. Effective SCM enables manufacturers to reduce waste, optimize resources, and adapt to market changes swiftly, thereby maintaining a competitive edge in the global marketplace (Habib, 2011; A. Oyewole & Adegbite, 2023; A. T. Oyewole, Okoye, Ofodile, & Ejairu, 2024; Van der Vorst, 2004).

Enterprise Resource Planning (ERP) Systems

Enterprise Resource Planning systems are integrated software platforms that combine essential business processes and functions, including inventory and order management, accounting, human resources, customer relationship management, and beyond (Gibson, Holland, & Light, 1999; Shehab, Sharp, Supramaniam, & Spedding, 2004). By centralizing data and automating business processes, ERP systems improve data accuracy, facilitate better decision-making, and enhance operational efficiency. ERP systems are instrumental in streamlining production planning, managing supply chain activities, and improving collaboration across departments in manufacturing operations. They allow for real-time visibility into operations, essential for

optimizing productivity and responding to issues as they arise (Bahssas, AlBar, & Hoque, 2015; Kumar & van Hillegersberg, 2000).

AI in SCM and ERP

Artificial Intelligence technologies, such as machine learning, predictive analytics, natural language processing, and robotics, have the potential to significantly transform SCM and ERP systems. AI can analyze large datasets to identify patterns, predict trends, and provide insights that human operators might miss. In SCM, AI applications include demand forecasting, inventory optimization, and logistics planning, enabling more accurate and efficient management of supply chain activities. AI can automate routine tasks, enhance data analysis, and improve decision-making processes within ERP systems (Fawole et al., 2023). For instance, AI-powered analytics can forecast production needs, optimize resource allocation, and predict maintenance requirements, thus increasing operational efficiency and reducing downtime (Abrahams et al., 2024; Adewusi et al., 2024; Nyathani, Allam, & Engineer, 2023).

Integrating AI into SCM and ERP systems presents several challenges and barriers. Technical challenges include the complexity of integrating AI technologies with existing IT infrastructure, data quality issues, and the need for specialized skills to develop, implement, and manage AI applications. Organizational challenges involve aligning AI initiatives with business goals, managing change, and ensuring stakeholder buy-in (Orikpete and Ewim, 2023). Additionally, there are significant data challenges, including ensuring data privacy, security, and compliance with regulatory requirements. Overcoming these challenges requires a strategic approach to technology integration, investment in skill development, and a focus on data management practices (Godbole, 2023; Kunduru, 2023; Modupe et al., 2024; Obaigbena et al., 2024).

The integration of AI technologies into SCM and ERP systems represents a significant leap forward in enhancing manufacturing productivity. By addressing the challenges associated with this integration, manufacturers can unlock the full potential of AI to streamline operations, reduce costs, and better meet customer demands (Wiggins et al., 2023). The theoretical framework outlined here provides a foundation for understanding the critical role of SCM and ERP in manufacturing and the transformative impact of AI technologies on these systems.

AI-Driven SCM Optimization

The application of Artificial Intelligence in Supply Chain Management (SCM) encompasses a broad array of techniques designed to enhance the efficiency and effectiveness of supply chain operations. Key AI techniques include (Helo & Hao, 2022; Min, 2010; Pournader, Ghaderi, Hassanzadegan, & Fahimnia, 2021):

- **Machine Learning (ML):** ML algorithms analyze historical data to predict future trends, enabling better demand forecasting, inventory management, and identification of supply chain risks.
- **Predictive Analytics:** This technique uses data, statistical algorithms, and machine learning to identify the likelihood of future outcomes based on historical data. It's particularly useful in forecasting demand and improving supply chain resilience.
- **Natural Language Processing (NLP):** NLP enables computers to understand and interpret human language, facilitating automated customer service and improved communication within the supply chain.

- **Robotic Process Automation (RPA):** RPA uses robots or AI workers to automate routine and repetitive tasks, such as order processing and data entry, thereby increasing efficiency and reducing errors.
- **Internet of Things (IoT):** IoT devices collect and exchange data in real-time, offering unparalleled visibility across the supply chain. This data can monitor inventory levels, track shipments, and optimize logistics.

Benefits of AI-Driven SCM Optimization

AI-driven SCM optimization offers numerous benefits that significantly enhance supply chain efficiency, accuracy, and decision-making (Dash, McMurtrey, Rebman, & Kar, 2019; Fosso Wamba, Queiroz, Guthrie, & Braganza, 2022; Singh, Rawat, Mittal, Kumar, & Bhatt, 2022):

- **Improved Demand Forecasting:** AI algorithms can analyze vast amounts of data to predict demand more accurately, helping companies to align their production schedules and inventory levels with market needs.
- **Enhanced Inventory Management:** AI provides insights into optimal stock levels, reducing the risk of overstocking or stockouts and ensuring that inventory is aligned with demand (Fetuga et al., 2023).
- **Optimized Logistics:** AI can optimize route planning for deliveries, taking into account factors such as traffic conditions, weather, and fuel consumption, thereby reducing delivery times and costs.
- **Increased Efficiency and Productivity:** By automating routine tasks, AI allows employees to focus on more strategic activities, thus improving overall productivity.
- **Better Decision-Making:** With real-time data and predictive analytics, decision-makers can anticipate problems and make informed decisions quickly, increasing the agility of the supply chain.

Recent studies and developments in AI-driven SCM optimization highlight its growing impact and potential. Research has shown significant improvements in demand forecasting accuracy through advanced ML models that can handle complex, non-linear patterns in data (Blöse et al., 2023). Studies have documented the successful implementation of RPA in supply chains, resulting in faster processing times, reduced errors, and lower operational costs. Recent developments in IoT technology have enabled real-time tracking of goods, with research indicating substantial improvements in inventory accuracy and logistics efficiency. Emerging research is focusing on how AI can optimize supply chain sustainability by improving resource efficiency and reducing waste (Carbonneau, Laframboise, & Vahidov, 2008; Feizabadi, 2022; Seyedan & Mafakheri, 2020; Zohdi, Rafiee, Kayvanfar, & Salamiraad, 2022).

The integration of AI into SCM represents a transformative shift towards more intelligent, responsive, and efficient supply chains. The current state of research underscores the potential of AI to revolutionize supply chain operations, making them more adaptable to changing market conditions and customer needs (Abolarin et al., 2023; Onyiriuka et al., 2023). As these technologies continue to evolve, their adoption in SCM is expected to grow, offering new opportunities for innovation and competitive advantage.

AI Integration with ERP Systems

Challenges of Integrating AI with ERP

Integrating AI with Enterprise Resource Planning systems presents a set of unique challenges that span technical, organizational, and data-related domains (Godbole, 2023; Goundar, Nayyar, Maharaj, Ratnam, & Prasad, 2021):

- **Technical Challenges:** These include the complexity of integrating AI tools with existing ERP systems, the need for substantial computational resources, and ensuring the compatibility of AI models with the ERP software architecture.
- **Organizational Challenges:** Organizational resistance to change can hinder the integration process. Employees may be skeptical about AI technologies or fear job displacement due to automation. Moreover, there may be a lack of skilled personnel to effectively manage and maintain AI systems.
- **Data-Related Challenges:** AI systems require large volumes of high-quality data to function optimally. Ensuring data accuracy, consistency, and cleanliness can be a significant hurdle. Additionally, integrating AI involves navigating issues of data privacy, security, and compliance with regulations.

Strategies for Integration

Successfully integrating AI into ERP systems requires a strategic approach that addresses the aforementioned challenges (Okoli, Obi, Adewusi, & Abrahams, 2024; Okoro, Oladeinde, Akindote, Adegbite, & Abrahams, 2023; Oladeinde, Hassan, Farayola, Akindote, & Adegbite, 2023; Olatoye et al., 2024):

- **Pilot Projects:** Starting with small-scale pilot projects can help organizations test AI integrations with minimal risk. This approach allows for the evaluation of technical feasibility, organizational readiness, and potential ROI before a full-scale rollout.
- **Skilling and Change Management:** Implementing training programs to upskill employees on AI and ERP integrations is crucial (Daniyan, 2023; Izuka et al., 2023). Equally important is initiating change management practices to address fears and resistance, emphasizing AI's value to employees' roles and the organization.
- **Data Governance:** Establishing robust data governance practices ensures that data feeding into AI systems is accurate, consistent, and clean (Lochab et al., 2023; Muteba et al., 2023). This involves setting up data management protocols, regular data audits, and ensuring compliance with data protection regulations.
- **Collaboration with AI and ERP Vendors:** Working closely with vendors can provide access to specialized expertise, helping to navigate technical challenges and ensuring that AI solutions are compatible with existing ERP systems.

Examples of AI-ERP Integration

Several AI applications within ERP systems illustrate the potential of this integration to transform business operations (Atadoga, Umoga, Lottu, & Sodiya, 2024; Azunna, 2018; Mandvikar & Achanta, 2023; Priya, Rudra, Kandula, Teja, & Reddy, 2023):

- **Intelligent Process Automation (IPA):** AI-driven automation tools can streamline repetitive tasks such as data entry, invoice processing, and order management, significantly reducing manual effort and error rates.

- **Predictive Maintenance:** AI can analyze data from machinery and equipment to predict failures before they occur, scheduling maintenance only when necessary. This reduces downtime and extends the lifespan of assets.
- **Advanced Demand Forecasting:** AI algorithms can process vast amounts of sales data, market trends, and external factors (like weather or economic indicators) to forecast demand more accurately (Popo-Olanian et al., 2022; Lottu et al., 2023). This enables better inventory management, production planning, and resource allocation.
- **Customer Service Chatbots:** AI-powered chatbots integrated into ERP systems can handle customer inquiries, orders, and support tickets, improving response times and customer satisfaction.

The integration of AI with ERP systems offers significant opportunities to enhance data analysis, automate processes, and improve overall operational efficiency (Orikpete et al., 2020; Emeka-Okoli et al., 2024). While challenges exist, strategic approaches and successful examples demonstrate the feasibility and benefits of this integration. As AI technologies continue to evolve, their role in ERP systems is poised to become increasingly central, driving innovations that can transform business operations.

CONCLUSION AND FUTURE DIRECTIONS

Conclusion

This review has explored the transformative potential of Artificial Intelligence in optimizing Supply Chain Management (SCM) and integrating Enterprise Resource Planning systems to enhance manufacturing productivity. Key insights include the identification of various AI techniques such as machine learning, predictive analytics, and robotic process automation that can significantly improve demand forecasting, inventory management, and logistics within SCM. In the realm of ERP, AI integration promises to streamline processes, automate repetitive tasks, and enhance decision-making through advanced data analysis. Despite the challenges associated with integrating AI into SCM and ERP systems, including technical, organizational, and data-related hurdles, strategic approaches and successful examples highlight the feasibility and benefits of such integrations.

Integrating AI into SCM and ERP systems has profound implications for manufacturing productivity. AI-driven SCM optimization can lead to more accurate demand forecasting, reduced inventory costs, and improved supply chain agility. Meanwhile, AI-enhanced ERP systems can automate and refine business processes, leading to significant efficiency gains. These advancements enable manufacturers to respond more quickly to market changes, reduce waste, and enhance overall competitiveness. The strategic integration of AI streamlines operations and fosters innovation, paving the way for new business models and opportunities. This review acknowledges several limitations. The scope of AI applications and their impact on SCM and ERP systems is vast and rapidly evolving, making it challenging to capture all recent advancements and their implications comprehensively. Additionally, the review focuses on the positive aspects of AI integration, with less emphasis on the potential risks and ethical considerations related to job displacement, data privacy, and security. Finally, the review draws on available literature and case studies, which may not fully represent the diversity of experiences and outcomes in different industries and geographic regions.

Future Research Directions

Looking ahead, several areas warrant further research to fully leverage AI in SCM and ERP systems:

- Future studies should explore AI integration's ethical, social, and employment-related implications, developing frameworks to mitigate negative impacts while maximizing benefits.
- Research should address the technical challenges of interoperability between AI technologies and existing ERP systems, including the development of industry standards and best practices.
- Investigating how AI can enhance the sustainability of supply chains and manufacturing processes represents a vital research avenue, aligning with global efforts to achieve environmental and social sustainability.
- Continuous exploration of emerging AI technologies and their applications in SCM and ERP systems is essential. This includes quantum computing's potential impact on data processing and decision-making and the integration of blockchain for enhanced transparency and security.

In conclusion, the integration of AI into SCM and ERP systems offers a promising avenue for enhancing manufacturing productivity. By addressing current limitations and focusing on future research directions, there is significant potential to further revolutionize these systems, driving efficiency, innovation, and sustainability in the manufacturing sector.

References

- Abaku, E.A., & Odimarha, A.C. (2024). Sustainable supply chain management in the medical industry: a theoretical and practical examination. *International Medical Science Research Journal*, 4(3), 319–340. <https://doi.org/10.51594/imsrj.v4i3.931>
- Abaku, E.A., Edunjobi, T.E., & Odimarha, A.C. (2024). Theoretical approaches to AI in supply chain optimization: Pathways to efficiency and resilience. *International Journal of Science and Technology Research Archive*, 6(1), 092–107. <https://doi.org/10.53771/ijstra.2024.6.1.0033>
- Abolarin, S. M., Everts, M., Ewim, D. R. E., Adelaja, A. O., Olakoyejo, O. T., & Meyer, J. P. (2023). Study on the heat transfer and pressure drop power curves for entropy generation rate in the laminar, transitional, and turbulent flow regimes. *ASTFE Digital Library*, 1103-1112.
- Abolarin, S. M., Everts, M., Ewim, D. R. E., Olakoyejo, O. T., Adelaja, A. O., & Meyer, J. P. (2023). Evaluation of the irreversibility distribution ratio and pumping power using heat transfer and pressure drop power curves of a smooth circular tube with laminar, transitional ... *International Heat Transfer Conference Digital Library*.
- Adama, H. E., Popoola, O. A., Okeke, C. D., & Akinoso, A. E. (2024). Economic theory and practical impacts of digital transformation in supply chain optimization. *International Journal of Advanced Economics*, 6(4), 95-107.
- Adama, H. E., Popoola, O. A., Okeke, C. D., & Akinoso, A. E. (2024). Theoretical frameworks supporting it and business strategy alignment for sustained competitive advantage. *International Journal of Management & Entrepreneurship Research*, 6(4), 1273-1287.

- Adefemi, A., Daudu, C. D., Okoli, C. E., Ayorinde, O. B., Adekoya, O. O., & Ibeh, C. V. (2024). Reviewing the development of floating LNG facilities and their global impact. *Engineering Science & Technology Journal*, 5(2), 367-384.
- Akinsanya, M. O., Ekechi, C. C., & Okeke, C. D. (2024). Data sovereignty and security in network engineering: A conceptual framework for compliance. *International Journal of Science and Research Archive*, 11(2), 1832-1847.
- Akinsanya, M. O., Ekechi, C. C., & Okeke, C. D. (2024). Security paradigms for iot in telecom networks: conceptual challenges and solution pathways. *Engineering Science & Technology Journal*, 5(4), 1431-1451.
- Akinsanya, M. O., Ekechi, C. C., & Okeke, C. D. (2024). The evolution of cyber resilience frameworks in network security: a conceptual analysis. *Computer Science & IT Research Journal*, 5(4), 926-949.
- Akinsanya, M. O., Ekechi, C. C., & Okeke, C. D. (2024). Theoretical underpinnings and practical implications of sd-wan technologies in telecommunications. *Computer Science & IT Research Journal*, 5(4), 950-971.
- Akinsanya, M. O., Ekechi, C. C., & Okeke, C. D. (2024). Virtual private networks (VPN): a conceptual review of security protocols and their application in modern networks. *Engineering Science & Technology Journal*, 5(4), 1452-1472.
- Akintuyi, O. B. (2024). Adaptive AI in Precision Agriculture: A Review: Investigating the use of self-learning algorithms in optimizing farm operations based on real-time data. *Research Journal of Multidisciplinary Studies*, 7(02), 016-030.
- Akintuyi, O. B. (2024). AI in agriculture: A comparative review of developments in the USA and Africa. *Research Journal of Science and Engineering*, 10(02), 060–070.
- Akintuyi, O. B. (2024). The Role of Artificial Intelligence in U.S. Agriculture: A Review: Assessing advancements, challenges, and the potential impact on food production and sustainability. *Open Access Research Journal of Engineering and Technology*, 6(02), 023–032.
- Akintuyi, O. B. (2024). Vertical farming in urban environments: a review of architectural integration and food security. *Journal of Biology and Pharmacy*, 10(02), 114-126.
- Aremo, B., Isadore, D. A., Akinduro, O. E., Bello, O. E., Adeoye, M. O., Ayodeji, S. A., ... & Oluwasegun, K. M. (2024). Production of glass ceramic from rice husk and periwinkle shells. *Discover Materials*, 4(1), 8.
- Aturamu, O. A., Thompson, O. A., & Banke, A. O. (2021). Forecasting the effect of climate variability on yam yield in rainforest and Guinea Savannah agro-ecological zone of Nigeria. *Journal of Global Agriculture and Ecology*, 11(4), 1-12.
- Ayorinde, O. B., Daudu, C. D., Etukudoh, E. A., Adefemi, A., Adekoya, O. O., et al. (2024). Climate risk assessment in petroleum operations: A review of CSR practices for sustainable resilience in the United States and Africa. *Engineering Science & Technology Journal*, 5(2), 385-401.
- Ayorinde, O. B., Daudu, C. D., Okoli, C. E., Adefemi, A., Adekoya, O. O., & Ibeh, C. V. (2024). Reviewing the impact of LNG technology advancements on global energy markets. *Engineering Science & Technology Journal*, 5(2), 402-411.
- Ayorinde, O. B., Etukudoh, E. A., Nwokediegwu, Z. Q. S., Ibekwe, K. I., Umoh, A. A., et al. (2024). Renewable energy projects in Africa: A review of climate finance strategies.

- International Journal of Science and Research Archive*, 11(1), 923-932.
- Blose, S. C., Ewim, D. R. E., Eloka-Eboka, A. C., & Adelaja, A. O. (2023). Improved correlation for predicting heat transfer coefficients during condensation inside smooth horizontal tubes. *International Journal of Low-Carbon Technologies*, 18, 750-763.
- Daniyan, A. A., Okonkwo, P. C., Ogundare, O. J., Oluwasegun, K. M., Umoru, L. E., Ayodeji, S., ... & Ige, O. O. (2024). Microstructural characterization and corrosion behaviour of heat treated standard stainless steels in tar sand. *hybrid advances*, 100195.
- Daudu, C. D., Adefemi, A., Adekoya, O. O., Okoli, C. E., Ayorinde, O. B., et al. (2024). LNG and climate change: Evaluating its carbon footprint in comparison to other fossil fuels. *Engineering Science & Technology Journal*, 5(2), 412-426.
- Daudu, C. D., Okoli, C. E., Adefemi, A., Ayorinde, O. B., Adekoya, O. O., et al. (2024). Reviewing the economic viability of LNG projects in African nations. *World Journal of Advanced Research and Reviews*, 21(2), 109-118.
- Digitemie, W. N., & Ekemezie, I. O., (2024). Assessing the role of climate finance in supporting developing nations: a comprehensive review. *Finance & Accounting Research Journal*, 6.
- Digitemie, W. N., & Ekemezie, I. O., (2024). Assessing the role of LNG in global carbon neutrality efforts: A project management review. *GSC Advanced Research and Reviews*, 2024, 18(03), 091–100.
- Digitemie, W. N., & Ekemezie, I. O., (2024). Assessing the role of carbon pricing in global climate change mitigation strategies. *Magna Scientia Advanced Research and Reviews*, 2024, 10(02), 022–031.
- Digitemie, W. N., & Ekemezie, I. O., (2024). Enhancing Carbon Capture and Storage Efficiency in The Oil and Gas Sector: An Integrated Data Science and Geological Approach. *Engineering Science & Technology Journal*, 5, 924-934.
- Ehimare, E., Orikpete, O., & Ewim, D. R. E. (2023). The perennial logistical challenges during Nigerian elections: The unmanned aircraft system (UAS) solution.
- Ekechi, C. C., Chukwurah, E. G., Oyenyi, L. D., & Okeke, C. D. (2024). A review of small business growth strategies in African economies. *International Journal of Advanced Economics*, 6(4), 76-94.
- Ekechi, C. C., Chukwurah, E. G., Oyenyi, L. D., & Okeke, C. D. (2024). AI-infused chatbots for customer support: a cross-country evaluation of user satisfaction in the USA and the UK. *International Journal of Management & Entrepreneurship Research*, 6(4), 1259-1272.
- Ekemezie, I. O., & Digitemie, W. N. (2024). Climate Change Mitigation Strategies in The Oil & Gas Sector: A Review of Practices and Impact. *Engineering Science & Technology Journal*, 5, 935-948, March 2024.
- Ekemezie, I. O., & Digitemie, W. N. (2024). A review of sustainable project management practices in modern LNG industry initiatives. *World Journal of Advanced Engineering Technology and Sciences*, 2024, 11(02), 009–018.
- Ekemezie, I. O., & Digitemie, W. N. (2024). Best Practices in Strategic Project Management Across Multinational Corporations: A Global Perspective on Success Factors and Challenges. *International Journal of Management & Entrepreneurship Research*, 6, 795-805.

- Ekemezie, I. O., & Digitemie, W. N. (2024). Carbon capture and utilization (CCU): a review of emerging applications and challenges. *Engineering Science & Technology Journal*, 5, 949-961, March 2024.
- Ekemezie, I. O., & Digitemie, W. N. (2024). A comprehensive review of Building Energy Management Systems (BEMS) for improved efficiency. *World Journal of Advanced Research and Reviews*, 2024, 21(03), 829–841.
- Emeka-Okoli, S., Nwankwo, T. C., Otonnah, C. A., & Nwankwo, E. (2024). Environmental stewardship and corporate social responsibility: A review of case studies from the oil and gas sector. *World Journal of Advanced Research and Reviews*, 21(3), 069-077.
- Emeka-Okoli, S., Nwankwo, T. C., Otonnah, C. A., & Nwankwo, E. (2024). Communication strategies for effective CSR and stakeholder engagement in the oil & gas industry: A conceptual analysis. *World Journal of Advanced Research and Reviews*, 21(3), 091-099.
- Emeka-Okoli, S., Nwankwo, T. C., Otonnah, C. A., & Nwankwo, E. (2024). The evolution of CSR reporting in the oil and gas industry and its future direction: A conceptual review. *World Journal of Advanced Research and Reviews*, 21(3), 100-108.
- Emeka-Okoli, S., Nwankwo, T. C., Otonnah, C. A., & Nwankwo, E. (2024). Corporate governance and CSR for sustainability in Oil and Gas: Trends, challenges, and best practices: A review. *World Journal of Advanced Research and Reviews*, 21(3), 078-090.
- Emeka-Okoli, S., Otonnah, C. A., Nwankwo, T. C., & Nwankwo, E. (2024). Internal and external communication in oil & gas for enhancing CSR implementation: A review. *World Journal of Advanced Research and Reviews*, 21(3), 109-118.
- Etukudoh, E. A., Ilojiana, V. I., Ayorinde, O. B., Daudu, C. D., Adefemi, A., et al. (2024). Review of climate change impact on water availability in the USA and Africa. *International Journal of Science and Research Archive*, 11(1), 942-951.
- Ewim, D. R. E., Nundlal, Y., Govender, K., Nzuke, N. L., Mbatha, M. V., Gwexa, N., et al. (2023). Knowledge, awareness, and perception of senior high school learners towards nuclear energy: A South African case study. *African Journal of Science, Technology, Innovation and Development*, 15(7).
- Eyo-Udo, N.L., Odimarha, A.C., & Ejairu, E. (2024). Sustainable and ethical supply chain management: The role of HR in current practices and future directions. *Magna Scientia Advanced Research and Reviews*, 10(2), 181–196. <https://doi.org/10.30574/msarr.2024.10.2.0058>
- Eyo-Udo, N.L., Odimarha, A.C., & Kolade, O.O. (2024). Ethical supply chain management: balancing profit, social responsibility, and environmental stewardship. *International Journal of Management & Entrepreneurship Research*, 6(4), 1069–1077. <https://doi.org/10.51594/ijmer.v6i4.985>
- Familoni, B.T., Abaku, E.A., & Odimarha, A.C. (2024). Blockchain for enhancing small business security: A theoretical and practical exploration. *Open Access Research Journal of Multidisciplinary Studies*, 7(1), 149–162. <https://doi.org/10.53022/oarjms.2024.7.1.0020>
- Fawole, A. A., Orikpete, O. F., Ehiobu, N. N., & Ewim, D. R. E. (2023). Climate change implications of electronic waste: Strategies for sustainable management. *Bulletin of the National Research Centre*, 47(1), 147.
- Fetuga, I. A., Olakoyejo, O. T., Abolarin, S. M., Adelaja, A. O., & Ewim, D. R. E. (2023).

- Numerical investigation of ternary nanofluid flow with combined stent, torus-ring and grooved twisted tape inserts under a non-uniform temperature wall profile. *International Heat Transfer Conference Digital Library*.
- Fetuga, I. A., Olakoyejo, O. T., Oluwatusin, O., Adelaja, A. O., & Ewim, D. R. E. (2023). Computational fluid dynamics investigation of effects of anastomosis angle on hemodynamic indicators in end-to-side brachioaxillary arteriovenous graft. Series on Biomechanics.
- Isadare Dayo, A., Ayodeji Sodruddeen, A., Abiodun Bukunmi, J., & Odun, A. (2024). The re-imagination of electrochemical power: a global awak-ening and thoughts from Obafemi Awolowo University, Ile-Ife.
- Izuka, U., Ojo, G. G., Ayodeji, S. A., Ndiwe, T. C., & Ehiaguina, V. E. (2023). Powering rural healthcare with sustainable energy: a global review of solar solutions. *Engineering Science & Technology Journal*, 4(4), 190-208.
- Kikanme, K., Dennis, N. M., Orikpete, O. F., & Ewim, D. R. E. (2024). PFAS in Nigeria: Identifying data gaps that hinder assessments of ecotoxicological and human health impacts. Available at SSRN 4714590.
- Lochab, V., Ewim, E. D., & Prakash, S. (2023). Continuous flow microfluidics for colloidal particle assembly on porous substrates. *Soft Matter*, 19(14), 2564-2569.
- Lottu, O. A., Ehiaguina, V. E., Ayodeji, S. A., Ndiwe, T. C., & Izuka, U. (2023). Global review of solar power in education: initiatives, challenges, and benefits. *Engineering Science & Technology Journal*, 4(4), 209-221.
- Muteba, G. K., Ewim, D. R. E., Dirker, J., & Meyer, J. P. (2023). Heat transfer and pressure drop investigation for prescribed heat fluxes on both the inner and outer wall of an annular duct. *Experimental Thermal and Fluid Science*, 145, 110907.
- Ntuli, M. N., Eloka-Eboka, A. C., Mwangi, F. M., Ewim, D. R. E., & Dioha, M. O. (2024). Energy sustainability and carbon dioxide emissions mitigation options for South Africa's road transport sector. *Bulletin of the National Research Centre*, 48(1), 37.
- Nwokediegwu, Z. Q. S., Adefemi, A., Ayorinde, O. B., Ilojiana, V. I., & Etukudoh, E. A. (2024). Review of water policy and management: Comparing the USA and Africa. *Engineering Science & Technology Journal*, 5(2), 385-401.
- Nwokediegwu, Z. Q. S., Ibekwe, K. I., Ilojiana, V. I., Etukudoh, E. A., & Ayorinde, O. B. (2024). Renewable energy technologies in engineering: A review of current developments and future prospects. *Engineering Science & Technology Journal*, 5(2), 367-384.
- Odimarha, A. C., Ayodeji, S. A., & Abaku, E. A. (2024). Machine learning's influence on supply chain and logistics optimization in the oil and gas sector: a comprehensive analysis. *Computer Science & IT Research Journal*, 5(3), 725-740.
- Odimarha, A. C., Ayodeji, S. A., & Abaku, E. A. (2024). The role of technology in supply chain risk management: Innovations and challenges in logistics. *Magna Scientia Advanced Research and Reviews*, 10(2), 138-145.
- Odimarha, A.C., Ayodeji, S.A., & Abaku, E.A. (2024a). Machine learning's influence on supply chain and logistics optimization in the oil and gas sector: a comprehensive analysis. *Computer Science & IT Research Journal*, 5(3), 725-740. <https://doi.org/10.51594/csitrj.v5i3.976>

- Odimarha, A.C., Ayodeji, S.A., & Abaku, E.A. (2024b). Securing the digital supply chain: Cybersecurity best practices for logistics and shipping companies. *World Journal of Advanced Science and Technology*, 5(1), 026–030. <https://doi.org/10.53346/wjast.2024.5.1.0030>
- Odimarha, A.C., Ayodeji, S.A., & Abaku, E.A. (2024c). The role of technology in supply chain risk management: Innovations and challenges in logistics. *Magna Scientia Advanced Research and Reviews*, 10(2), 138–145. <https://doi.org/10.30574/msarr.2024.10.2.0052>.
- Oke, I. A., Aremo, B., Isadare, D. A., Olorunniwo, O. E., Ayodeji, S. A., Abass, G. F., & Daniyan, A. A. (2023). Microstructures of developed composite graphite-resin electrodes. *Materials Sciences and Applications*, 14(12), 526-534.
- Okogwu, C., Agho, M. O., Adeyinka, M. A., Odulaja, B. A., Ufoaro, O. A., Ayodeji, S. A., & Daraojimba, C. (2023). Adapting to oil price volatility: a strategic review of supply chain responses over two decades. *International Journal of Research and Scientific Innovation*, 10(10), 68-87.
- Okoli, C. E., Adekoya, O. O., Ilojiyanya, V. I., Ayorinde, O. B., & Etukudoh, E. A. (2024). Sustainable energy transition strategies: A comparative review of CSR and corporate advising in the petroleum industry in the United States and Africa. *International Journal of Science and Research Archive*, 11(1), 933-941.
- Oluwatusin, O., Adelaja, A. O., Aderemi, K. S., Fetuga, I. A., Olakoyejo, O. T., & Ewim, D. R. E. (2022). Numerical prediction of flow recirculation length zone in an artery with multiple stenoses at low and high Reynolds number. *Series on Biomechanics*, 36(2).
- Onwuka, O. U., & Adu, A. (2024). Carbon capture integration in seismic interpretation: Advancing subsurface models for sustainable exploration. *International Journal of Scholarly Research in Science and Technology*, 2024, 04(01), 032–041
- Onwuka, O. U., & Adu, A. (2024). Eco-efficient well planning: Engineering solutions for reduced environmental impact in hydrocarbon extraction. *International Journal of Scholarly Research in Multidisciplinary Studies*, 2024, 04(01), 033–043
- Onwuka, O. U., & Adu, A. (2024). Subsurface carbon sequestration potential in offshore environments: A geoscientific perspective. *Engineering Science & Technology Journal*, 5(4), 1173-1183.
- Onwuka, O. U., & Adu, A. (2024). Sustainable strategies in onshore gas exploration: Incorporating carbon capture for environmental compliance. *Engineering Science & Technology Journal*, 5(4), 1184-1202.
- Onwuka, O. U., & Adu, A. (2024). Technological synergies for sustainable resource discovery: Enhancing energy exploration with carbon management. *Engineering Science & Technology Journal*, 5(4), 1203-1213.
- Onyiriuka, E. J., Ewim, D. R. E., & Abolarin, S. M. (2023). An optimization technique to identify simulation assumptions for various nanofluids using machine learning. International Heat Transfer Conference Digital Library.
- Orikpete, O. F., & Ewim, D. R. E. (2023). A review of noise management practice in Nigeria. *Environmental Science & Sustainable Development*, 8(1), 31-44.
- Orikpete, O. F., Leton, T. G., & Ewim, D. R. E. (2020). Mathematical modeling of environmental noise generated by rotorcraft overflight. *Journal of Critical Reviews*,

- 7(19), 10097-10110.
- Popoola, O. A., Adama, H. E., Okeke, C. D., & Akinoso, A. E. (2024). Conceptualizing agile development in digital transformations: theoretical foundations and practical applications. *Engineering Science & Technology Journal*, 5(4), 1524-1541.
- Popoola, O. A., Adama, H. E., Okeke, C. D., & Akinoso, A. E. (2024). The strategic value of business analysts in enhancing organizational efficiency and operations. *International Journal of Management & Entrepreneurship Research*, 6(4), 1288-1303.
- Popoola, O. A., Adama, H. E., Okeke, C. D., & Akinoso, A. E. (2024). Advancements and innovations in requirements elicitation: Developing a comprehensive conceptual model. *World Journal of Advanced Research and Reviews*, 22(1), 1209-1220.
- Popoola, O. A., Adama, H. E., Okeke, C. D., & Emmanuel, A. (2024). Cross-industry frameworks for business process reengineering: Conceptual models and practical executions.
- Popo-Olaniyan, O., Elufioye, O. A., Okonkwo, F. C., Udeh, C. A., Eleogu, T. F., & Olatoye, F. O. (2022). Inclusive workforce development in US stem fields: a comprehensive review. *International Journal of Management & Entrepreneurship Research*, 4(12), 659-674.
- Popo-Olaniyan, O., Elufioye, O. A., Okonkwo, F. C., Udeh, C. A., Eleogu, T. F., & Olatoye, F. O. (2022). AI-driven talent analytics for strategic hr decision-making in the United States Of America: A Review. *International Journal of Management & Entrepreneurship Research*, 4(12), 607-622.
- Popo-Olaniyan, O., James, O. O., Udeh, C. A., Daraojimba, R. E., & Ogedengbe, D. E. (2022). Review of advancing US innovation through collaborative hr ecosystems: a sector-wide perspective. *International Journal of Management & Entrepreneurship Research*, 4(12), 623-640.
- Popo-Olaniyan, O., James, O. O., Udeh, C. A., Daraojimba, R. E., & Ogedengbe, D. E. (2022). A review of us strategies for STEM talent attraction and retention: challenges and opportunities. *International Journal of Management & Entrepreneurship Research*, 4(12), 588-606.
- Popo-Olaniyan, O., James, O. O., Udeh, C. A., Daraojimba, R. E., & Ogedengbe, D. E. (2022). Future-Proofing human resources in the us with ai: a review of trends and implications. *International Journal of Management & Entrepreneurship Research*, 4(12), 641-658.
- Solomon, N. O., Kanchan, S., & Kesheri, M. (2024). Nanoparticles as Detoxifiers for Industrial Wastewater. *Water, Air, & Soil Pollution*, 235(3), 1-26.
- Suku, P. G., Ugwoha, E., Orikpete, O. F., & Ewim, D. R. E. (2023). Assessment of respiratory and reproductive impacts of artisanal refinery activities on male Albino Wistar rats: Implications for environmental health. *Bulletin of the National Research Centre*, 47(1), 149.
- Thompson, O. A., Akintuyi, O. B., Omoniyi, L. O., & Fatoki, O. A. (2022). Analysis of Land Use and Land Cover Change in Oil Palm Producing Agro-Ecological Zones of Nigeria. *Journal of Agroforestry and Environment*, 15(1), 30-41.
- Uduafemhe, M. E., Ewim, D. R. E., & Karfe, R. Y. (2023). Adapting to the new normal: Equipping career and technical education graduates with essential digital skills for

- remote employment. *ATBU Journal of Science, Technology and Education*, 11(4), 51-62.
- Usiagu, G. S., Adekoya, O. O., Okoli, C. E., Daudu, C. D., Ekemezie, I. O., et al. (2024). LNG as a bridge fuel in the transition to renewable energy: A global perspective. *World Journal of Advanced Research and Reviews*, 21(2), 742-749.
- Usiagu, G. S., Ayorinde, O. B., Okoli, C. E., Daudu, C. D., Adekoya, O. O., et al. (2024). Environmental implications of LNG usage: A comparative review of policies in the USA and Africa. *World Journal of Advanced Research and Reviews*, 21(2), 742-749.
- Uyigüe, L., & Solomon, N. O. (2017). Measurement and Modelling of the Biochemical Oxygen Demand Profile of Brewery Wastewater. *Journal of Emerging Trends in Engineering and Applied Sciences (JETEAS)*, 8(4), 193-201.
- Wiggins, J., Cox, M. F., Howard, A., Leveni, M., Cuellar-Gaviria, T. Z., Hisey, C. L., et al. (2023). Doing academia differently: The creation of a cohort-based postdoctoral scholars program for emerging engineering faculty. 2023 ASEE Annual Conference & Exposition.
- Abrahams, T. O., Farayola, O. A., Kaggwa, S., Uwaoma, P. U., Hassan, A. O., & Dawodu, S. O. (2024). Cybersecurity awareness and education programs: A review of employee engagement and accountability. *Computer Science & IT Research Journal*, 5(1), 100-119.
- Adewusi, A. O., Okoli, U. I., Olorunsogo, T., Adaga, E., Daraojimba, D. O., & Obi, O. C. (2024). Artificial intelligence in cybersecurity: Protecting national infrastructure: A USA.
- Atadoga, A., Umoga, U. J., Lottu, O. A., & Sodiya, E. O. (2024). Evaluating the impact of cloud computing on accounting firms: A review of efficiency, scalability, and data security. *Global Journal of Engineering and Technology Advances*, 18(02), 065-074.
- Azunna, C. (2018). Post-colonial agricultural participation in livelihood strengthening. *Research, Society and Development*, 7(2), 772144.
- Bahssas, D. M., AlBar, A. M., & Hoque, M. R. (2015). Enterprise resource planning (ERP) systems: design, trends and deployment. *The International Technology Management Review*, 5(2), 72-81.
- Carbonneau, R., Laframboise, K., & Vahidov, R. (2008). Application of machine learning techniques for supply chain demand forecasting. *European Journal of Operational Research*, 184(3), 1140-1154.
- Dash, R., McMurtrey, M., Rebman, C., & Kar, U. K. (2019). Application of artificial intelligence in automation of supply chain management. *Journal of Strategic Innovation and Sustainability*, 14(3).
- Feizabadi, J. (2022). Machine learning demand forecasting and supply chain performance. *International Journal of Logistics Research and Applications*, 25(2), 119-142.
- Fosso Wamba, S., Queiroz, M. M., Guthrie, C., & Braganza, A. (2022). Industry experiences of artificial intelligence (AI): Benefits and challenges in operations and supply chain management. In (Vol. 33, 1493-1497): Taylor & Francis.
- Giannakis, M., Spanaki, K., & Dubey, R. (2019). A cloud-based supply chain management system: effects on supply chain responsiveness. *Journal of Enterprise Information Management*, 32(4), 585-607.

- Gibson, N., Holland, C. P., & Light, B. (1999). *Enterprise resource planning: a business approach to systems development*. Paper presented at the Proceedings of the 32nd Annual Hawaii International Conference on Systems Sciences. 1999. HICSS-32. Abstracts and CD-ROM of Full Papers.
- Godbole, M. V. (2023). Revolutionizing Enterprise Resource Planning (ERP) Systems through Artificial Intelligence. *International Numeric Journal of Machine Learning and Robots*, 7(7), 1-15.
- Goundar, S., Nayyar, A., Maharaj, M., Ratnam, K., & Prasad, S. (2021). How artificial intelligence is transforming the ERP systems. *Enterprise systems and technological convergence: Research and practice*, 85.
- Habib, M. (2011). Supply chain management (SCM): theory and evolution. *Supply Chain Management-Applications and Simulations*, 10, 24573.
- Hassan, M., Wahab, N. A. B. A., & Nor, R. B. M. (2023). The role of artificial intelligence in waste reduction in the beverage industry: a comprehensive strategy for enhanced sustainability and efficiency. *AI, IoT and the Fourth Industrial Revolution Review*, 13(11), 1-8.
- 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.
- Herman, E. (2016). The importance of the manufacturing sector in the Romanian economy. *Procedia Technology*, 22, 976-983.
- Javaid, M., Haleem, A., Singh, R. P., & Suman, R. (2022). Artificial intelligence applications for industry 4.0: A literature-based study. *Journal of Industrial Integration and Management*, 7(01), 83-111.
- Kumar, K., & van Hilleberg, J. (2000). Enterprise resource planning: introduction. *Communications of the ACM*, 43(4), 22-26.
- Kunduru, A. R. (2023). Effective usage of artificial intelligence in enterprise resource planning applications. *International Journal of Computer Trends and Technology*, 71(4), 73-80.
- Kurbel, K. E. (2013). Enterprise resource planning and supply chain management. *Functions, Business Processes and Software for Manufacturing Companies. Progress in IS. Springer, Dordrecht*.
- Larson, P. D., & Rogers, D. S. (1998). Supply chain management: definition, growth and approaches. *Journal of Marketing Theory and Practice*, 6(4), 1-5.
- LeMay, S., Helms, M. M., Kimball, B., & McMahon, D. (2017). Supply chain management: the elusive concept and definition. *The International Journal of Logistics Management*, 28(4), 1425-1453.
- Lenny Koh, S., Saad, S., & Arunachalam, S. (2006). Competing in the 21st century supply chain through supply chain management and enterprise resource planning integration. *International Journal of Physical Distribution & Logistics Management*, 36(6), 455-465.
- Mandvikar, S., & Achanta, A. (2023). Process automation 2.0 with generative AI framework. *International Journal of Science and Research (IJSR)*, 12(10), 1614-1619.
- Mehrotra, S. (2020). The cornerstone of a planning strategy for the 21st Century. *Planning in the 20th Century and Beyond: India's Planning Commission and the NITI Aayog*, 208.

- Min, H. (2010). Artificial intelligence in supply chain management: theory and applications. *International Journal of Logistics: Research and Applications*, 13(1), 13-39.
- Modupe, O. T., Otitoola, A. A., Oladapo, O. J., Abiona, O. O., Oyeniran, O. C., Adewusi, A. O., . . . Obijuru, A. (2024). Reviewing the transformational impact of edge computing on real-time data processing and analytics. *Computer Science & IT Research Journal*, 5(3), 693-702.
- Ninduwezuor-Ehiobu, N., Tula, O. A., Daraojimba, C., Ofonagoro, K. A., Ogunjobi, O. A., Gidiagba, J. O., . . . Bansa, A. A. (2023). Exploring innovative material integration in modern manufacturing for advancing us competitiveness in sustainable global economy. *Engineering Science & Technology Journal*, 4(3), 140-168.
- Nyathani, R., Allam, K., & Engineer, B. I. (2023). Synergizing AI, Cloud Computing, and Big Data for Enhanced Enterprise Resource Planning (ERP) Systems. *Joseph, Sb, Samon Daniel, and GO Godwin." The Evolving Relationship Between Computers and Society, Impacts, Challenges, and Opportunities*.
- Obaigbena, A., Lottu, O. A., Ugwuanyi, E. D., Jacks, B. S., Sodiya, E. O., & Daraojimba, O. D. (2024). AI and human-robot interaction: A review of recent advances and challenges. *GSC Advanced Research and Reviews*, 18(2), 321-330.
- Okoli, U. I., Obi, O. C., Adewusi, A. O., & Abrahams, T. O. (2024). Machine learning in cybersecurity: A review of threat detection and defense mechanisms.
- Okoro, Y. O., Oladeinde, M., Akindote, O. J., Adegbite, A. O., & Abrahams, T. O. (2023). Digital communication and us economic growth: A comprehensive exploration of technology's impact on economic advancement. *Computer Science & IT Research Journal*, 4(3), 351-367.
- Oladeinde, M., Hassan, A. O., Farayola, O. A., Akindote, O. J., & Adegbite, A. O. (2023). Review of it innovations, data analytics, and governance in nigerian enterprises. *Computer Science & IT Research Journal*, 4(3), 300-326.
- Olatoye, F. O., Awonuga, K. F., Mhlongo, N. Z., Ibeh, C. V., Elufioye, O. A., & Ndubuisi, N. L. (2024). AI and ethics in business: A comprehensive review of responsible AI practices and corporate responsibility. *International Journal of Science and Research Archive*, 11(1), 1433-1443.
- Oyewole, A., & Adegbite, M. (2023). The impact of Artificial Intelligence (AI), Blockchain, Cloud Computing and Data Analytics on the future of the Fintech Industry in the US. *Blockchain, Cloud Computing and Data Analytics on the future of the Fintech Industry in the US.(June 22, 2023)*.
- Oyewole, A. T., Okoye, C. C., Ofodile, O. C., & Ejairu, E. (2024). Reviewing predictive analytics in supply chain management: Applications and benefits. *World Journal of Advanced Research and Reviews*, 21(3), 568-574.
- Pournader, M., Ghaderi, H., Hassanzadegan, A., & Fahimnia, B. (2021). Artificial intelligence applications in supply chain management. *International Journal of Production Economics*, 241, 108250.
- Priya, P. K., Rudra, K., Kandula, D. S., Teja, G. C., & Reddy, K. V. K. (2023). 13 An innovative analysis of AI-powered automation techniques for business management. *Toward Artificial General Intelligence: Deep Learning, Neural Networks, Generative AI*, 269.
- Seyedan, M., & Mafakheri, F. (2020). Predictive big data analytics for supply chain demand

- forecasting: methods, applications, and research opportunities. *Journal of Big Data*, 7(1), 53.
- Shehab, E., Sharp, M., Supramaniam, L., & Spedding, T. A. (2004). Enterprise resource planning: An integrative review. *Business Process Management Journal*, 10(4), 359-386.
- Singh, S., 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.
- Van der Vorst, J. G. (2004). Supply Chain Management: theory and practices. In *Bridging Theory and Practice* (pp. 105-128): Reed Business.
- Zohdi, M., Rafiee, M., Kayvanfar, V., & Salamiraad, A. (2022). Demand forecasting based machine learning algorithms on customer information: an applied approach. *International Journal of Information Technology*, 14(4), 1937-1947.