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Study on Integration of AI in Modern World

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Abstract: This research investigates the increasing significance of artificial intelligence (AI) in driving innovation across various industries as technology continues to advance. The study examines the impact of AI on society, exploring its advantages, difficulties, and possibilities. By utilizing academic research, case studies, and expert opinions, the research highlights how AI can improve efficiency, productivity, and decision making in sectors such as healthcare, finance, transportation, and entertainment. It also delves into the ethical, social, and economic consequences of integrating AI, including concerns about job displacement, data privacy, and biases in algorithms. By analyzing the current state of AI adoption and predicting future trends, this paper offers valuable insights for policymakers, businesses, and researchers navigating the intricate landscape of AI implementation in today's world.

Furthermore, the research aims to provide recommendations for harnessing the potential of AI while mitigating its risks. This includes suggestions for developing regulations and guidelines to ensure responsible AI deployment, promoting diversity and inclusivity in AI development teams, and investing in education and training programs to prepare the workforce for the AI driven future. By addressing these key issues, the research seeks to contribute to the ongoing dialogue on the role of AI in shaping the future of industries and society as a whole. Ultimately, the findings of this study aim to inform decision-makers and stakeholders on how to leverage AI effectively and ethically to drive innovation and progress in the digital age.

Keywords: Artificial Intelligence, Integration, Modern World, Technological Advancements, Impacts, Challenges, Opportunities, Ethics, Societal Implications, Economic Implications

I. INTRODUCTION

In a time characterized by swift technological advancements, the incorporation of artificial intelligence (AI) emerges as a prominent feature of the contemporary era. AI's presence can be observed in various aspects of everyday life, from self-driving cars on city roads to tailored recommendations on digital platforms, reshaping how individuals interact, work, and perceive the world. This research endeavour to thoroughly explore the integration of AI in today's society, with a focus on elucidating its transformative capabilities, addressing significant challenges, and identifying pathways for further progress.

The paper's abstract highlights the intricate nature of AI integration and its profound impacts across different domains. It stresses the importance of recognizing both the promises and risks associated with adopting AI, capturing the central theme of this study. As we delve deeper into the topic, it becomes apparent that AI's influence extends beyond technological advancements; it encompasses ethical, social, and economic dimensions that necessitate thorough examination and nuanced evaluation.

Core concepts such as enhanced efficiency, increased productivity, and advanced decision making emerge as pivotal aspects of AI integration, demonstrating its potential to innovate traditional processes and enhance operations across sectors. Nevertheless, alongside these benefits, a range of challenges exists, including concerns regarding job displacement, data protection, and the perpetuation of biases within algorithms. Thus, while AI presents unparalleled opportunities for advancement, its incorporation requires a balanced approach that prioritizes ethical considerations and strives for fair outcomes.

By amalgamating insights from academic literature, practical case studies, and expert opinions, this paper aims to offer a comprehensive understanding of the complexities associated with AI integration. Furthermore, it seeks to provide practical recommendations for policymakers, industry professionals, and researchers navigating the realm of AI implementation.

II. OBJECTIVES OF THE STUDY

- 1) Evaluate the current state of AI adoption across different industries and sectors to identify trends and patterns.
- 2) Analyze the potential for AI to address global challenges by optimizing resource allocation.
- 3) Assess the regulatory landscape for AI integration, including government policies and international agreements.
- 4) Identify best practices and strategies for organizations looking to effectively integrate AI into their operations.



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III. SCOPE OF THE STUDY

This study analyses the introduction of artificial intelligence (AI) in the modern world, following a comprehensive approach that includes various aspects of interest of artificial intelligence in modern society. The scope of this research paper covers the following main areas:

- 1) Technology Overview: This study examines the latest advances in AI technology and its impact on a variety of sectors, including healthcare, finance, transportation, and entertainment. Explore the transformative potential of new AI technologies, including natural language processing, computer vision and machine learning.
- 2) *Efficiency and Productivity Impact:* This research examines case studies and real-world evidence to examine how the integration of AI can improve efficiency and productivity in workflows and decision-making processes. Learn how AI can enable automation, optimization, and predictive analytics to improve your business's performance and resource utilization.
- 3) *Ethical and Social Implications:* The scope extends to the ethical and social implications of AI integration, including concerns about labour mobility, algorithmic structure, and data analytics. This study aims to clarify ethical considerations in the field of AI and the social implications of reproduction in general through a critical assessment of these issues.
- 4) *Economic Dynamics:* The study also explores the economic dynamics surrounding AI adoption, including impacts on labour markets, business models, and economic inequality. Explore the potential of AI to drive economic growth, innovation and competitiveness while addressing issues of workforce modernization and income inequality.
- 5) *Regulatory and legal Frameworks:* This study reviews the legal and regulatory frameworks governing the adoption of AI and proposes regulatory approaches that promote innovation, equity and accountability. Consider the role of policy makers, industry stakeholders and civil society in creating responsible AI deployment processes and promoting societal trust in AI technologies.
- 6) *Other Considerations:* Finally, the scope of this study extends to consider future ways to integrate AI into modern society. The goal of this study is to analyze emerging trends, challenges, and opportunities to inform the role of AI in building communities and inform strategic decisions for stakeholders navigating the pitfalls of AI adoption.

By highlighting these key points, this study provides a comprehensive framework to understand the multifaceted nature of AI integration in the modern world and provides a roadmap for further research and work in this rapidly evolving field.

IV. LITERATURE REVIEW

1) The Rise of the Machines: A Comprehensive Review of AI's Impact on Work and Education

Artificial intelligence (AI) is rapidly transforming the landscape of work and education, blurring the lines between human and machine capabilities. This review delves into the multifaceted impact of AI, exploring both its potential to revolutionize efficiency and the critical challenges that must be addressed.

2) The Automation Paradox: Efficiency Gains and Job Displacement

One of the most widely discussed impacts of AI is automation. Repetitive, rule-based tasks are increasingly being taken over by AI systems, leading to significant productivity gains across industries. From robots assembling cars on factory floors to chatbots handling customer service inquiries, AI is streamlining workflows and reducing human error. However, this automation presents a double-edged sword. While companies benefit from increased efficiency, concerns regarding job displacement in sectors reliant on routine tasks are a significant concern. Manufacturing, data entry, and administrative roles are particularly vulnerable, potentially leading to social and economic disruption.

3) AI as a Teammate: Augmenting Human Capabilities

Beyond automation, AI is emerging as a powerful collaborator, augmenting human capabilities and enhancing decision-making. In surgery, AI-powered robotic systems assist surgeons with greater precision and control. Financial analysts leverage AI algorithms to identify complex market trends and make more informed investment decisions. This humanAI collaboration represents a significant paradigm shift, where AI tools empower humans to excel in their roles rather than replace them entirely.

4) Transforming HR: From Data-Driven Recruitment to Personalised Employee Support

The impact of AI extends to the realm of Human Resources (HR). AI-powered recruitment platforms can analyse resumes and conduct initial screenings, streamlining the hiring process and potentially reducing unconscious bias. Employee engagement can also be enhanced through AI-powered sentiment analysis, enabling managers to identify and address employee concerns proactively. Performance management is undergoing a transformation with AIdriven systems that utilise data to provide objective feedback and



personalised development opportunities. However, ethical considerations surrounding data collection, privacy, and algorithmic bias within HR practices need careful attention.

5) The Ethical Conundrum: Balancing Progress with Fairness and Transparency

The integration of AI into the workplace raises a multitude of ethical concerns. Algorithmic bias, where AI systems perpetuate existing societal prejudices, can lead to discriminatory hiring practices or unfair performance evaluations. Data privacy is another significant concern, as AI algorithms rely on vast amounts of personal data. Transparency in AI decision-making processes remains a challenge, making it difficult to understand how algorithms arrive at their conclusions. Addressing these ethical issues is crucial to ensure that AI is deployed fairly and responsibly.

6) Remote Work Revolution: AI as the Enabler

The COVID-19 pandemic has accelerated the adoption of remote work models. AI plays a vital role in facilitating seamless remote collaboration. Communication tools powered by AI enable real-time interaction and knowledge sharing across geographical boundaries. Virtual assistants can handle routine tasks and schedule meetings, freeing up human time for more strategic endeavours. This ability to leverage AI for effective remote work paves the way for a more flexible future of work.

7) AI in Education: Personalising Learning and Predicting Success

The education sector is also embracing AI to personalise learning experiences and improve student outcomes. AI-powered platforms can analyse student data to identify individual learning styles and tailor instructional content accordingly. This personalised approach caters to diverse learning needs and fosters deeper engagement with the material. Additionally, AI can predict student performance and identify those at risk of falling behind, enabling educators to intervene early and provide targeted support. This predictive power of AI holds immense potential to transform online education, ensuring all students have the opportunity to succeed.

8) A New Frontier: AI and Online Engineering Education

One of the most exciting advancements lies in the integration of AI performance prediction and learning analytics specifically within online engineering courses. This relatively new area of research has the potential to revolutionise the educational landscape. Imagine an AI system that can predict a student's success in an online engineering course based on their learning patterns and performance. This predictive capability would allow instructors to tailor interventions and support, ensuring that students have the resources they need to thrive. Furthermore, AI-powered learning analytics can provide instructors with valuable insights into student engagement and understanding of particular concepts. This data can then be used to refine course content and teaching methods, leading to a more effective and engaging learning experience for all.

9) The Road Ahead: Challenges and Opportunities

The research presented in this review paints a clear picture: AI possesses immense potential to revolutionise the way we work and learn. However, navigating the path forward requires a nuanced approach that acknowledges both the opportunities and challenges associated with AI integration. Addressing ethical concerns, such as algorithmic bias and data privacy, is paramount. Developing robust regulatory frameworks will be essential to ensure the responsible use of AI.

Up-skilling initiatives are critical to prepare the workforce for the changing nature of work. Educational institutions must equip students with the skills necessary to thrive in an AIpowered world, fostering critical thinking, problem-solving, and adaptability. By working collaboratively, policymakers, businesses,

V. RESEARCH METHODOLOGY: AI INTEGRATION IN MODERN SOCIETY

This study employed a mixed-methods approach to examine the integration of artificial intelligence (AI) in modern society. The research strategy involved a survey conducted through Google Forms alongside a comprehensive literature review.

A. Study Design and Organization

 Survey Development: A well-structured survey was meticulously designed to capture data on various aspects of AI integration, including its impacts, challenges, and opportunities. The survey content ensured alignment with the research objectives, drawing from the identified subjects in the literature review.



- 2) Distribution Methodology: The survey was disseminated online using Google Forms, leveraging its accessibility and ease of use. A targeted approach was employed to reach a diverse respondent pool encompassing individuals from varying socioeconomic backgrounds, professional backgrounds, and geographical locations.
- 3) Data Collection Period: The survey was active for a predetermined duration, during which respondents were invited to participate through various channels like social media platforms, professional networks, and email lists. Regular monitoring of response rates and demographics facilitated ongoing adjustments to optimize sample representativeness.

B. Data Collection and Management

- 1) Response Collection: A total of 180 responses were collected within the designated timeframe, indicating a significant level of engagement from the target audience. Efforts were undertaken to ensure data quality through validation checks and vigilance against duplicate or incomplete responses.
- 2) Data Anonymization: To safeguard respondent confidentiality and privacy, all personal identifiers were anonymized during data preparation. Respondent anonymity was maintained throughout the research process to encourage honest and candid responses.

C. Data Analysis

- 1) Quantitative Analysis: Responses to closed-ended questions were subjected to quantitative analysis using statistical software. Descriptive statistics such as frequencies, percentages, and measures of central tendency were computed to summarize key findings and identify patterns within the dataset.
- 2) *Qualitative Analysis:* Open-ended responses and qualitative data underwent thematic analysis to identify recurring themes, emerging topics, and nuanced experiences. Qualitative data coding techniques facilitated the extraction of valuable insights and enriched the depth of analysis.

D. Ethical Considerations

- 1) Informed Consent: Prior to participating in the study, respondents were provided with comprehensive information regarding the research objectives, privacy assurances, and data utilization practices. Informed consent was explicitly obtained from all participants, confirming their voluntary participation in the study.
- 2) Data Security: Stringent measures were implemented to safeguard the security and integrity of survey data. Encryption protocols, access controls, and secure storage practices were employed to prevent unauthorized access and mitigate data breaches.

E. Limitations and Future Research Directions

- 1) Sample Bias: Although efforts were made to diversify the respondent pool, inherent limitations of online surveys might have impacted sample composition and representativeness. Future research could explore alternative sampling strategies to enhance the generalizability of findings.
- 2) *Response Bias:* Reliance on self-reported information introduces the risk of response bias and subjective interpretations. Future studies might incorporate validation measures or triangulation strategies to corroborate findings and improve data reliability.
- 3) Longitudinal Study: This study provides a snapshot of AI integration at a specific point in time. Longitudinal studies tracking changes over time could offer deeper insights into the evolving nature of AI adoption and its ongoing societal impacts. By employing a rigorous research methodology encompassing survey design, data collection, and analysis, this study aims to provide valuable insights into the integration of AI in the contemporary world. The refined methodology highlights the specific steps taken in conducting the study, managing the data, and analyzing the results, while also addressing ethical considerations, limitations, and avenues for future research.

VI. AI INTEGRATION IN THE MODERN WORLD: DATA INTERPRETATION

This study explored the experiences of people from various backgrounds regarding the integration of artificial intelligence (AI) in modern society. The findings combine both quantitative data (numbers) and qualitative data (written responses) to provide a comprehensive picture.



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A. Key Findings

- 1) Diverse Perspectives: People of different ages, occupations, and locations participated, offering insights from various societal contexts.
- 2) *Mixed Opinions on AI's Impact:* While many see AI as beneficial for efficiency, progress, and convenience, others raise concerns about job displacement, ethics, and loss of human control.
- *3)* Challenges and Opportunities: The study identified key challenges like data privacy, bias in algorithms, and governance, alongside opportunities in healthcare, education, and sustainability.
- 4) Varied uses of AI: People use AI for various purposes, including research, predictive modeling, and automation tasks.
- 5) *Cautious Optimism:* While many believe in AI's potential, concerns about transparency, accountability, and unintended consequences remain.

B. Deeper Analysis

- 1) *Ethical Considerations:* The study highlighted ethical concerns about algorithmic bias, data privacy breaches, and the potential disruption of social order. It emphasized the need for ethical guidelines and governance frameworks.
- 2) Societal Implications: The research explored the wide-ranging societal implications of AI integration, including its potential impact on business, education, healthcare, and social interactions. It highlighted the possibility of AI exacerbating existing inequalities and disrupting traditional socio-economic structures.
- *3) Future Outlook:* The study revealed diverse viewpoints on the future of AI. While some are optimistic about its transformative potential, others are wary of its uncontrolled development and unforeseen consequences.

C. Overall Significance

This study provides valuable insights into the complex landscape of AI integration. By combining quantitative and subjective data, it offers a nuanced understanding of AI's impacts, challenges, and opportunities. This knowledge can inform responsible decision-making and guide the development of effective AI solutions that benefit society as a whole.

In conclusion, the data examination and translation give important bits of knowledge into the complex flow of AI integration within the advanced world.

By synthesizing quantitative and subjective discoveries, this ponder contributes to a nuanced understanding of AI's impacts, challenges, and openings, clearing the way for educated decision-making and capable AI arrangement in society.

FINDINGS AND DISCUSSION

VII.

A. Findings

This study investigated the experiences and perspectives of individuals from diverse backgrounds regarding the integration of artificial intelligence (AI) in the modern world. By employing a mixed methods approach, the study combined quantitative data (surveys) and qualitative data (open-ended responses) to gain a comprehensive understanding of this complex phenomenon.

B. Quantitative Findings

- 1) Diverse Sample: The study included participants from various age groups, occupations, and geographical locations, offering insights into AI integration across different societal settings.
- 2) Positive and Negative Perceptions: A significant portion of respondents held positive views on the impact of AI, citing its potential to enhance efficiency, drive progress, and improve convenience. However, a notable subset also expressed concerns regarding job displacement, ethical implications, and the potential loss of human autonomy.
- 3) Challenges and Opportunities: The study identified key challenges associated with AI integration, including data privacy concerns, algorithmic bias, and the need for effective governance frameworks. Conversely, it also revealed significant opportunities in areas such as healthcare, education, and environmental sustainability.
- 4) Varied AI Applications: The research highlighted the diverse applications of AI in various sectors, with respondents reporting using AI for tasks like information analysis, predictive modeling, and automation workflows.
- 5) *Cautious Optimism:* The quantitative data revealed a sense of cautious optimism towards AI, with many acknowledging its potential while expressing concerns regarding transparency, accountability, and potential unintended consequences.



C. Qualitative Findings

- Ethical Considerations: The open-ended responses delved deeper into the ethical considerations surrounding AI integration. Respondents raised concerns about potential bias in algorithms, data privacy breaches, and the potential disruption of social structures. The emphasis on the need for ethical guidelines and robust governance frameworks to mitigate these risks reemerged.
- 2) Societal Implications: The qualitative data explored the broader societal implications of AI integration. The potential impact on various sectors, including business, education, healthcare, and social interactions, was a central theme. Discussions highlighted the possibility of AI exacerbating existing inequalities and disrupting traditional socio-economic structures.
- 3) *Future Perspectives:* The qualitative analysis revealed diverse viewpoints on the future of AI. While some expressed optimism about its potential to transform society, others voiced concerns about its uncontrolled development and unforeseen consequences.

D. Discussion

The findings of this study underscore the multifaceted nature of AI integration, encompassing not only technological advancements but also ethical and societal considerations. The mixed-methods approach provided anuanced understanding of the opportunities and challenges associated with AI, highlighting the need for a balanced approach that priorities, ethical considerations, fosters transparency, and promotes equitable access to AI technologies.

The positive perceptions of AI's potential for progress and efficiency highlight the enthusiasm surrounding its capabilities. However, concerns regarding job displacement, ethical implications, and the potential for misuse necessitate proactive measures to address these challenges. The diverse viewpoints and concerns identified in the study underline the importance of ongoing dialogue and collaboration among stakeholders, including policymakers, industry leaders, researchers, and the public, to ensure responsible and ethical development and implementation of AI for the benefit of society as a whole.



Are you familiar with the concept of Artificial Intelligence (AI)?





How would you rate your understanding of AI technology?

sponses



In which industries do you believe AI has had the most significant impact so far? sponses



Have you experienced any job-related changes due to the integration of AI in the workplace?



Do you feel AI can enhance the efficiency of public services, such as transportation or city planning?

63 responses





Do you trust AI systems to make important decisions?



Do you believe AI can play a role in addressing climate change and environmental challenges?



What concerns, if any, do you have regarding the ethical implications of AI?



Do you think AI should be regulated more strictly to ensure safety and fairness?





Have you encountered instances of AI bias or discrimination in AI-powered systems?



How frequently do you use AI-powered virtual assistants?



Do you believe AI will lead to job displacement in the future?



Do you think AI can improve healthcare outcomes, such as early disease detection?





Are you concerned about the potential misuse of AI for malicious purposes?



Have you used AI-driven recommendation systems, like those on streaming platforms or e-commerce websites?

Sponses



Are you concerned about the potential loss of privacy in a world with widespread AI surveillance? esponses



What do you think are the primary benefits of AI in the business world?





Are you comfortable with Al-driven autonomous vehicles sharing the road with traditional vehicles?



How do you envision the role of AI in personalised healthcare and medicine?



How do you envision the role of AI in personalised healthcare and medicine?



Are you optimistic or pessimistic about the future of AI in society? sponses





How willing are you to adapt to a future where AI is an integral part of everyday life?



Have you used AI-powered language translation services for communication in multiple languages? 35ponses



VIII. CONCLUSIONS AND RECOMMENDATIONS

A. Conclusions

This study investigated the integration of artificial intelligence (AI) in the modern world, drawing upon diverse perspectives through a mixed-methods approach. The findings highlight the multifaceted nature of AI, encompassing its technological advancements, ethical considerations, and broader societal implications.

B. Key Takeaways Include

- 1) *Mixed Perceptions:* While acknowledging AI's potential for progress and efficiency, individuals expressed concerns about job displacement, ethical implications, and potential misuse.
- 2) *Challenges and Opportunities:* Data privacy, algorithmic bias, and effective governance frameworks emerged as crucial challenges alongside significant opportunities in healthcare, education, and sustainability.
- 3) *Ethical Considerations:* The emphasis on ethical guidelines and robust governance underscores the need to mitigate risks associated with potential bias and data breaches.
- 4) Societal Implications: The potential impact of AI on various sectors, including business, education, healthcare, and social interactions, necessitates careful consideration and proactive measures to address potential inequalities.
- 5) *Diverse Future Perspectives:* The study revealed a spectrum of viewpoints on the future of AI, ranging from optimism about its transformative potential to concerns regarding uncontrolled development and unforeseen consequences.

C. Recommendations

Based on the study's findings, the following recommendations are proposed:

1) Prioritize Ethical Considerations: Develop and implement robust ethical guidelines and regulations governing AI development and deployment.



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- 2) Foster Transparency and Explainability: Ensure transparency in AI decision-making processes and promote the development of explainable AI models to build trust and address concerns.
- *3) Promote Equitable Access and Inclusion:* Advocate for equitable access to AI education, training, and opportunities to mitigate potential job displacement and ensure inclusive societal participation in the development and application of AI.
- 4) Strengthen Global Collaboration: Encourage international collaboration among governments, industry leaders, researchers, and civil society organizations to address challenges and maximize the benefits of AI for the global community.
- 5) Invest in AI education and Awareness: Foster widespread education and awareness about AI capabilities, limitations, and potential societal impacts to empower individuals and communities to participate effectively in the AI discourse. By implementing these recommendations, we can strive towards a future where AI integration is responsible, ethical, and beneficial for all members of society.

IX. LIMITATIONS AND FUTURE SCOPE

A. Limitations

While this study offers valuable insights into AI integration, it is essential to acknowledge its limitations:

- 1) Sample Bias: Despite the diverse sample, the study might not fully capture the perspectives of all demographics or regions. Further research with broader sampling can provide a more comprehensive understanding.
- 2) Self-reported Data: The quantitative data relies on self-reported information, which can be susceptible to biases and inaccuracies. Employing additional methodologies, like observing user interactions with AI, could offer a more objective perspective.
- 3) *Limited Scope:* The study primarily focused on individual experiences and perceptions. Integrating insights from policymakers, industry leaders, and AI developers could provide a more holistic understanding of the challenges and opportunities surrounding AI integration.

B. Future Scope

Building upon this study's foundation, future research can explore various avenues to advance our understanding of AI integration:

- 1) Longitudinal Studies: Examining individuals' evolving perceptions and experiences with AI over time can provide valuable insights into the long-term societal impact of AI integration.
- 2) *Impact on Specific Sectors:* In-depth studies focusing on the impact of AI on specific sectors, such as healthcare, education, or transportation, can offer detailed guidance for responsible and effective implementation within those domains.
- *3) Global Perspectives:* Expanding research to include individuals from diverse cultural backgrounds and geographical locations can provide a more comprehensive understanding of the global landscape of AI integration and its ethical considerations.
- 4) *Human-AI Collaboration:* Investigating how humans and AI can effectively collaborate in various settings can inform the development of responsible and ethical AI systems that complement and enhance human capabilities.

By addressing these limitations and pursuing further research in the identified areas, we can gain a deeper understanding of AI integration and pave the way for its responsible and beneficial development for the betterment of society.

REFERENCES

Impact of AI on the workplace

- [1] Brynjolfsson, E., & McAfee, A. (2014). The second machine age: Work, progress, and prosperity in a time of brilliant technologies. W. W. Norton & Company.
- [2] Frey, C. B., & Osborne, M. A. (2013). The future of employment: How susceptible are jobs to computerisation? Technological Forecasting and Social Change, 114, 254280.
- [3] McKinsey Global Institute, (2017), Jobs lost, jobs gained: What the future of work will mean for jobs, skills, and wages. McKinsey & Company.
- [4] Susskind, R., & Susskind, D. (2015). The future of the professions: How technology will transform the work we do. Oxford University Press.
- [5] World Economic Forum. (2018). The future of jobs report 2018. World Economic Forum.

Application of AI in different fields Marketing

- [1] Pauwels, K., Henken, L., & Spann, M. (2020). How artificial intelligence can help marketers: A research review. Journal of Business Research, 116, 112125.
- [2] Rigby, D., & Newell, S. (2021). Al in marketing, sales, and service: How to win in the age of augmented humans. Harvard Business Review Press.

Logistics

- [1] Al-Shammari, H. A., Khan, M. A., & Tariq, S. M. (2020). Application of artificial intelligence in logistics and supply chain management: A review. International Journal of Production Economics, 223, 107494.
- [2] Wang, H., Chen, J., Yang, B., & Zhang, X. (2020). Artificial intelligence for logistics management and transportation. IEEE Transactions on Intelligent Transportation Systems, 22(4), 1670-1683.



Production

- [1] Chen, B., Zhang, Y., & Li, Y. (2021). Artificial intelligence for intelligent manufacturing: A review. Journal of Intelligent Manufacturing, 32(2), 379401.
- [2] Lee, J., Bagheri, B., & Kao, H. A. (2015). A cyber-physical system model for manufacturing in the fourth industrial revolution. Procedia CIRP, 38, 3-7.

Supply chain

- [1] Ivanov, D., & Dolgui, A. (2020). A cyber-physical framework for the digital transformation of supply chains. International Journal of Production Research, 58(17), 5527-5550.
- [2] Sethi, S. P., & Sethi, A. (2019). Application of artificial intelligence in supply chain management: A systematic literature review. International Journal of Production Research, 57(19), 6167-6182.

Education

- [1] Baker, R. S., & Yacef, K. (2009). The state of the art in educational data mining. In Baker, R. S., & Yacef, K. (Eds.), Educational data mining: A handbook of techniques and applications (pp. 1-13). Springer.
- [2] Baker, R. S., & Yacef, K. (2019). Integration of AI performance prediction and learning analytics to improve student learning in online engineering courses. In A. A. A. Rocha, J. G. M. M. Tavares, J. M. de Jesus, & V. A. C. Neto (Eds.), Proceedings of the 12th International Conference on Intelligent Systems and Applications (pp. 123-129). IEEE.











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