Intelligent Globalization: The Intersection of International Economics and Artificial Intelligence

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Abstract

Intelligent globalization represents a transformative leap at the crossroads of international economics and artificial intelligence (AI), triggering profound shifts in global economic paradigms. This potentially manifests in various application areas. For instance, the integration of AI algorithms into trade and supply chain optimization is not merely revolutionizing global commerce but also redefining the very essence of how nations, corporations, and individuals engage with the global economy. Concurrently, the financial sector is undergoing a fundamental transformation through AI integration, reshaping risk management, fraud detection, and algorithmic trading practices on a global scale. This, in turn, is impacting worldwide investment strategies. Our paper emphasizes the need to adopt a comprehensive strategy for intelligent globalization, which involves striking a balance between economic efficacy and ethical factors, implementing regulatory structures, and demonstrating a dedication to inclusiveness and sustainable growth. In the contemporary global context, the fusion of international economics with AI promises a future characterized by enhanced cooperation, boundless creativity, and unparalleled flexibility in navigating the worldwide economic landscape.

Keywords: Global Integration; Global Governance; Globalization; Sustainable development goals

Introduction

"Intelligent" typically suggests a thoughtful, strategic, or informed approach, often involving the use of advanced technologies, data-driven decision-making, and adaptability. Meanwhile, "globalization" refers to the interconnectedness

and integration of economies, cultures, and societies on a global scale. Therefore, one possible interpretation of Intelligent Globalization (IG) could be a strategic and well-informed approach to the process of globalization. This might involve leveraging advanced technologies, data analytics, and

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intelligent decision-making to optimize the benefits of global integration while mitigating potential drawbacks. The term could imply a thoughtful consideration of economic, social, and environmental factors to ensure that globalization efforts are sustainable and beneficial for diverse communities and various stakeholders.

The imperative for Intelligent Globalization within the convergence of international economics and artificial intelligence (AI) arises from the pressing need to enhance risk management, fraud detection, and algorithmic trading in the complex, interconnected world of the global economy. With economic landscapes becoming increasingly intricate, governments and corporations are seeking innovative solutions to navigate uncertainties and mitigate effectively. In essence, Intelligent Globalization becomes a necessity in a world where the collaboration between governments, corporations, and individuals is essential for fostering economic resilience, ensuring market integrity, and driving inclusive and sustainable participation in the global economy.

In our paper, we discuss various facets of AI when integrated into risk management strategies, which offer the capability to analyze vast datasets in real time and provide governments with the tools to anticipate and respond to economic fluctuations, geopolitical shifts, and market volatility. In the realm of fraud detection, sophisticated AI algorithms bring unparalleled capabilities to identify and prevent financial crimes by swiftly analyzing intricate patterns and anomalies within

transactions. The application of AI in algorithmic trading, on the other hand, empowers governments and corporations to optimize trading strategies, adapting to rapidly changing market conditions for increased efficiency. Furthermore, the democratization of AI-powered financial tools ensures that individuals can actively participate in global markets, fostering financial inclusion.

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The rest of the paper is organized as follows: Section 2 describes the methodology followed for our research, Section 3 focuses on global integration with AI, section 4 reviews some thriving applications of Intelligent Globalization, section 5 emphasizes governance and ethical considerations and section 6 deals with working of Intelligent Globalization for developing countries. Finally, section 7 concludes the paper.

Methodology

The methodology for this research article involves a multi-dimensional approach to the integration ΑI analyze of within international economic frameworks and policymaking. Our work conceptualizes the phenomenon of Intelligent Globalization. We begin by conducting a comprehensive literature review to identify existing theories and case studies related to AI in risk management, international trade, and regulatory practices. This is followed by an examination of various AI applications across different domains, focusing specifically on the impact of AI-powered tools in global economic governance, fraud detection, and algorithmic trading. Through qualitative analysis, we investigate how AI facilitates financial inclusion and drives intelligent globalization by providing the ways in which real-time analytical capabilities that assist governments and corporations in managing market fluctuations and geopolitical risks. To enhance the rigor of our findings, we apply comparative analysis techniques to explore the implications of ΑI democratization developed developing and economies, ultimately highlight aiming to collaborative AI efforts foster sustainable and inclusive growth on a global scale.

Global Integration with AI

This section presents the different socioeconomic dimensions of intelligent globalization that demand collaborative solutions in ways that were unbelievable a few decades ago.

Technological Advancement in economic and financial processes: Integration of advanced technologies, including AI, blockchain, and the Internet of Things, shaping and influencing global economic and social interactions for risk management, fraud detection, and algorithmic trading.

Expansion of international trade networks: Evolving economic structures, innovation-driven growth, integration of supply chains, migration, and mobility, aiming at maximizing efficiency and reducing costs across traditional industries as well as knowledge-based industries and services.

Environmental and Social Considerations: Greater awareness and consideration of environmental

sustainability, social equity, and corporate responsibility in the context of global economic activities. This, in turn, will lead to higher cultural homogenization and hybridization. Addressing global challenges such as climate change, public health crisis, and inequality through coordinated international efforts.

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Geopolitical Shifts and Power Dynamics: Intelligent globalization is reshaping geopolitical dynamics as emerging economies assert themselves on the world stage and traditional power structures evolve. This includes the rise of regional blocs, such as the European Union, ASEAN, and BRICS, and the growing influence of countries like India in global affairs.

Global Governance and Ethical Considerations: Global regulatory resilient policies to ensure ethical usage of AI-powered solutions for equitable and sustainable growth.

Literature Review of Some Thriving Applications of Intelligent Globalization

The following subsections describe how AI has transformed different application areas of intelligent globalization and discuss related research.

Enhancing risk management

Intelligent globalization revolutionizes risk management strategies by leveraging AI-driven analytics to assess and predict potential economic risks. Traditional methods often struggle to adapt to the dynamic nature of global markets. Multinational firms can operate in a variety of geographical contexts due to globalization and the liberalization of commerce and services in many parts of the globe. This is

where many companies are finding competitive edge due to the efficacy of overseas business interactions. Tools like Scikit-Learn can analyze vast datasets, identify emerging risks, and provide timely recommendations. In the realm of global economics, risk management has always been a critical aspect for governments and corporations alike. However, the advent of IG introduces a new era of risk management, harnessing the power of AI to revolutionize how potential threats are identified and mitigated. Machine learning algorithms sift through historical patterns, market trends, geopolitical events, and other relevant factors to discern potential risks from intricate patterns spanning multidimensional data sources.

K. Santhana et al. (2022) discussed how AI systems can help in the mapping, management, prediction, and reducing uncertainties and aid in the attainment of sustainability. By providing a real-time, data-driven understanding of global economic scenarios, AI empowers decisionmakers with actionable insights. Governments can anticipate and respond to economic downturns, currency fluctuations, geopolitical tensions more effectively. Zhaoyi et al. (2022) analyzed the fluctuation forecast of exchange rate markets and applied different neural network models for risk measurement to tackle frequent economic and trade exchange risks in the volatile international economic environment. Countries and corporations gain the ability to adjust strategies promptly, ensuring resilience in the face of unforeseen challenges. Moreover, AI facilitates scenario analysis, allowing stakeholders to model the potential impact of various events and develop proactive strategies. This proactive approach enhances the overall risk resilience of economies, reducing the likelihood of systemic failures.

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Collaborative efforts between governments, international organizations, and private enterprises are fortified by AI tools that facilitate information sharing and cooperative risk assessment. This approach ensures a more comprehensive understanding of global risks and a coordinated response to mitigate their impact. As governments and corporations increasingly embrace these AI-driven tools, the evolution of risk management becomes a cornerstone in navigating the complexities of an interconnected world and enhances decisionmaking capabilities, bracing economies against potential risks and contributing to the overall stability of the global economic landscape.

Revolutionizing fraud detection

The incorporation of AI into global financial systems significantly improves fraud detection capabilities. After the global financial crisis of 2008, there is an increased need for monitoring, governance, conduct, and compliance management of financial services, and AIdriven solutions seem more effective and viable given the complexity and nature of data (Al-Shabandar et al., 2019). Financial institutions and regulatory bodies have started to rely on AIdriven automated processes for different types of financial fraud detection, as fraud can have wide ramifications and can destabilize economies (West & Bhattacharya, 2016).

Adewumi and Akinyelu (2017) review some state-of-the-art machine learning and natureinspired fraud detection techniques adaptable to increasing dynamic credit card frauds. Machine learning algorithms like DataVisor can quickly identify irregular patterns, anomalies, and activities within suspicious transactions, allowing financial institutions and regulatory bodies to pre-emptively address fraudulent behavior (Ojha et al., 2023). This not only safeguards the interests of corporations and governments but also bolsters public trust in the reliability and security of the global financial infrastructure. Zhang et al. (2022) optimized anomaly detection models to detect fraud behavior on imbalanced data. However, adopting AI-driven technologies brings a proactive and dynamic dimension to fraud detection on a global scale. Fatima et al. (2024) suggested a robust method for detecting fraud in balanced datasets. IG not only enhances the speed and accuracy of fraud detection but also introduces a predictive element. AI systems can anticipate potential fraud risks by recognizing subtle deviations from established patterns, enabling pre-emptive measures to be taken.

Financial institutions and regulatory bodies can share insights and data to create a networked defense against global financial crimes. This interconnected approach ensures that fraudulent activities, once identified in one part of the world, can be quickly communicated to others, preventing the spread of illicit practices.

Intelligent globalization revolutionizes fraud detection by integrating advanced AI technologies into the fabric of financial systems worldwide. This approach safeguards the interests of governments, corporations, and individuals by preventing financial crimes before significant damage occurs. The collaborative nature of IG further strengthens fraud detection efforts, as financial institutions and regulatory bodies can share real-time insights, creating a networked defense against global financial crimes. The swift adoption of AI-driven approaches in finance and the rapid emergence of generative AI (GenAI) may pose a threat to the stable functioning of the financial sector across economies. The inherent risks associated with GenAI are still not fully understood and remain undiscovered (Shabsigh & Boukherouaa, 2023). The role of IG in fraud detection represents a paradigm shift in securing the integrity of global financial systems. Machine learning algorithms, equipped with the ability to rapidly analyze vast volumes of transactional data, recognizing irregular patterns and anomalies that could indicate fraudulent behavior. This transformative capability not only strengthens the resilience of financial institutions but also fosters trust among stakeholders, as it allows for the swift detection and prevention of financial crimes.

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Transforming algorithmic trading

Intelligent Globalization has ushered in a new era of algorithmic trading, where AI algorithms autonomously execute complex trading strategies. Cohen (2022) analyses the advanced AI techniques to forecast financial asset trends. Deep learning and machine learning can adapt to market fluctuations, identify investment

opportunities, and optimize trading processes, contributing to increased market efficiency. As a result, corporations and investors can navigate global financial conditions more effectively, capitalizing on emerging trends and minimizing potential losses. Algorithmic characterized by using pre-programmed algorithms to execute high-frequency trades, has been significantly enhanced by the capabilities of AI, enabling market participants to navigate the complexities of global financial scenarios with unprecedented efficiency.

AI-driven algorithms help in processing vast amounts of data, allowing them to adapt to market instabilities and identify trading opportunities at a speed and precision beyond human capacity. This transformative technology enables market participants, including institutional investors and hedge funds, to execute trades with split-second timing, capitalize on emerging trends, and optimize trading strategies to maximize returns. Machine learning algorithms can learn from historical market data, continuously adapting and evolving to changing market conditions (Aloud and Alkhamees, 2021). This adaptability enhances the resilience of algorithmic trading strategies, allowing them to remain effective in the face of evolving market dynamics.

Furthermore, AI facilitates the development of more sophisticated trading strategies, such as predictive analytics and sentiment analysis. By incorporating non-traditional data sources, including social media sentiment and news articles, algorithms can gain a holistic understanding of market sentiment, providing traders with a competitive edge in decisionmaking (Gómez Martínez et al., 2019). As AIdriven algorithmic trading becomes more prevalent, market participants can benefit from increased liquidity, reduced spreads, and improved overall market efficiency. However, it also raises important considerations regarding market stability, regulatory frameworks, and the need for ethical AI practices to ensure a fair and transparent global trading environment. As AI algorithms continue to evolve and play an increasingly central role in trading strategies, participants must navigate opportunities and challenges presented by this technological revolution to foster a balanced, efficient, and transparent global trading ecosystem.

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Global Governance and Ethical Considerations

This section emphasizes the role of intelligent globalization in risk management, fraud detection, and algorithmic trading, which shapes how governments, corporations, and individuals participate in the global economy. Along with participation, making sure that collaborative synergy between these stakeholders not only enhances economic efficiency but also sets the stage for inclusive and sustainable growth.

Government, corporate, and individual participation

Governments are increasingly recognizing the transformative potential of AI in the global economy, incorporating intelligent technologies into policymaking, trade negotiations, and economic planning. With the ubiquitous growth of smart devices and furtherance towards smart cities, the technological advancements in AI envision the emergence of smart governments and nations (Casares, 2018). Corporations are adopting AI-driven solutions to gain a competitive edge, streamline operations, and navigate the complexities of international markets. Individuals, too, are becoming active participants as access to global markets becomes more democratized, and AI-powered financial tools empower them to make informed investment decisions. Plakandaras et al. (2019) examine the potential ability of geopolitical risk of 14 emerging countries to forecast several assets and how geopolitical uncertainties affect the global economy.

In the times of IG, the participation of governments, corporations, and individuals is undergoing a profound transformation. Governments are recognizing the strategic importance of AI in policymaking and economic planning. Loukis et al. (2020) proposed a methodology based on AI that uses existing government data to predict the vulnerability of individual firms to economic crises. AI-driven provide decision-makers tools with unprecedented insights into economic trends, allowing for more informed policy formulation and adaptive strategies to navigate the complexities of the global economy.

Ricardo's theory of comparative advantage remains a foundational principle in international trade theory, but its application in today's global economy is affected by trade imbalances, technological change, income inequality, and increased complexity (Murdock, 2020). Corporations are actively incorporating AI into their operations, from supply chain optimization customer relationship to technologies management; ΑI streamline processes, enhance efficiency, and unlock new possibilities for innovation. Helo and Hao (2022) present a timely and critical analysis of AIdriven supply chain research and applications. This not only boosts the competitiveness of individual companies but also contributes to the overall dynamism and resilience of the global business ecosystem.

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Due to globalization, doing business is not as easy as it once was. It has also led to the establishment of multicultural groups, where people from different cultural backgrounds work together. Cultural intelligence, according to Jyoti et al. (2015), is a technique that managers may use to improve their interactions with people from different cultural backgrounds. Cultural intelligence is integral to intelligent globalization. By fostering cultural intelligence, IG ensures that interactions across borders are respectful, productive, and mutually beneficial.

At the individual level, IG is democratizing access to global markets. AI-powered financial tools empower individuals to make more informed investment decisions, offering a level playing field in the world of finance. Online platforms and digital technologies enable individuals to participate directly in the global economy, fostering financial inclusion and opening opportunities for wealth creation beyond traditional boundaries. An individual-level approach to globalization examines the

varying scope to which people are globalized and that an individual's level of globalism exhibits attitudes and dispositions that impact how one resolves the social dilemma of participation in collective action (Adres et al., 2015).

Ethical considerations and sustainable growth

Intelligent globalization encounters several challenges that impact its efforts to improve risk management, fraud detection, and algorithmic trading, thereby influencing how governments, corporations, and individuals participate in the global economy. One major concern revolves around ethical, legal, social, and economic (ELSE) implications and the responsible use of AI, as the rapid integration of these technologies raises questions about data privacy, bias, fairness, and the potential for unintended consequences.

Additionally, there is a need for harmonized international regulations to govern the use of AI in financial systems, as disparities in regulatory frameworks may create vulnerabilities and hinder cross-border collaborations (Erdélyi & Goldsmith, 2018). The complexity of AI models poses challenges in explainability, making it difficult for stakeholders to understand the rationale behind algorithmic decisions, which is particularly crucial in sensitive areas such as risk management. Furthermore, the risk of cyber threats and hacking attempts targeting AI systems is a growing concern, posing potential disruptions to global financial stability. Crovini et al. (2018) discuss the main characteristics of cyber risk and uncertainties. As these issues persist, fostering a balanced and secure environment for IG becomes paramount to ensure that the benefits of these advancements are realized while mitigating potential risks for governments, corporations, and individuals participating in the global economy.

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Intelligent globalization- a geometric succession approach to achieve sustainable development goals adopted by the United Nations

Poverty Alleviation (SDG 1: No Poverty) and Food Security (SDG 2: Zero Hunger), Algenerated credit scoring systems can efficiently score individuals based on their past activities and determine their creditworthiness, allowing them access to financial services, which in turn empowers marginal communities and in board sense leads to financial inclusion. While there have been concerns about AI leading to the loss of jobs, just like any major revolution, the concern is nullified and alleviated by the new base of opportunities enabled by the new technology, thereby empowering people and reducing poverty.

With advancing technology, such as remote sensing and predictive analytics, we can easily optimize farming habits, reduce the impacts of climate change on total food production, and improve yield. AI can also help channelize the supply chain management systems to reduce waste and promote equitable access to nutritious food.

Techno-capitalism and equitable distribution

Combining this concept with "intelligent globalization" and emphasizing equitable

distribution suggests a strategic and mindful approach to global economic integration. Digital Transformation emphasizes the transformative power of digital technologies, automation, and data-driven decision-making in the economic context. Digital Platforms highlight the role of platforms, such as e-commerce, social media, and digital marketplaces, as key players in economic transactions.

The combination of these elements implies a vision of globalization where technological advancements, particularly in AI, are harnessed to promote inclusive economic growth on a global scale. It involves strategic decision-making that considers social, economic, and environmental factors, with a commitment to addressing potential disparities and ensuring a more equitable distribution of the benefits of globalization.

Workings of Intelligent Globalization for Developing Countries

In the context of developing countries, the workings of intelligent globalization, particularly at the combination of international economics and AI, can be shaped by various factors. Here are key considerations and strategies that developing countries may employ:

Capacity Building and Skill Development:

Investment in Education: Developing a skilled workforce is crucial. Investing in education and training programs related to AI and emerging technologies can empower the local population and enhance their

ability to contribute to the global digital economy.

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Promoting STEM Education: Focusing on science, technology, engineering, and mathematics (STEM) education is essential to nurture a workforce capable of engaging with AI technologies.

Research and Innovation:

Encouraging Research Initiatives: Supporting research initiatives in AI and technology can foster innovation. Establishing research centers and collaborations with international institutions can enhance the country's research capabilities.

Technology Transfer and Collaboration: Facilitating the transfer of AI technologies and knowledge through collaboration with global partners can accelerate the country's technological progress.

Policy and Regulatory Frameworks:

Adopting Favourable Policies: Developing countries can create policies that encourage the responsible adoption and development of AI technologies. This includes regulations to protect privacy and intellectual property and ensure ethical AI practices.

Incentives for Innovation: Offering incentives such as tax breaks or grants for businesses engaged in AI innovation can attract investment and stimulate the growth of a vibrant tech ecosystem.

Entrepreneurship and Startups:

Supporting Startup Ecosystems: Encouraging entrepreneurship and fostering a supportive environment for startups can lead to the creation of new AI-driven businesses.

Access to Funding: Ensuring that startups have access to funding, either through local investment or international partnerships, is crucial for their growth and success.

Social Inclusion and Ethical Considerations:

Addressing Inclusivity: Paying attention to the inclusivity of AI technologies is vital to avoid exacerbating social inequalities. This involves ensuring that benefits are distributed equitably and that AI systems do not reinforce existing biases. Businesses may now tap into global talent pools and expand their operations worldwide.

Ethical AI Practices: Promoting ethical AI practices and frameworks to guide the responsible development and use of AI technologies.

By considering these factors, developing countries can navigate the potential benefits of intelligent globalization while addressing challenges.

Conclusion

The future scope of Intelligent Globalization within the intersection of international economics and AI holds immense potential for further advancements in risk management, fraud detection, and algorithmic trading, fundamentally reshaping how governments, corporations, and individuals participate in the global economy. As AI technologies continue to evolve, the predictive power of machine learning algorithms is expected to enhance risk management strategies, allowing governments and corporations to pre-emptively address emerging challenges in a rapidly changing

economic landscape. In the realm of fraud detection, the future will likely witness the refinement of AI models, enabling them to discern even more subtle patterns and anomalies, providing an unparalleled level of global security for financial systems. Algorithmic trading is poised to become more sophisticated, with AI-driven strategies adapting to nuanced market conditions and uncovering new opportunities. Governments will increasingly rely on AI in crafting dynamic policies, and corporations will integrate AI across various sectors for improved efficiency. Moreover, as AI-powered financial tools become more accessible and user-friendly, individuals will play a more active role in the global economy, contributing to democratized and inclusive participation in financial markets. The collaborative efforts between governments, corporations, and individuals, driven by the transformative force of Intelligent Globalization, are likely to usher in an era of economic resilience, efficiency, and innovation on a global scale.

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