# 6. The Use and Evolution of Artificial Intelligence in Trade: A Comprehensive Review

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## Abstract:

The integration of artificial intelligence (AI) in trade has rapidly advanced in recent years, shaping global economic landscapes and transforming traditional business practices. This comprehensive review examines the multifaceted utilization and evolutionary trajectory of AI in trade. Through an extensive analysis of scholarly literature, industry reports, and case studies, this review synthesizes the current state of AI applications across various trade sectors, including finance, logistics, marketing, and supply chain management. Additionally, it investigates the underlying technologies driving AI adoption, such as machine learning, natural language processing, and predictive analytics. Furthermore, this review explores the implications of AI on trade efficiency, competitiveness, and market dynamics, while also addressing concerns regarding job displacement, data privacy, and ethical considerations. By elucidating the opportunities and challenges associated with AI in trade, this review contributes to a nuanced understanding of its transformative potential and guides future research directions in this rapidly evolving field. Artificial Intelligence (AI) has emerged as a transformative force in the realm of international trade, revolutionizing traditional business models and processes. This abstract offers a comprehensive overview of the burgeoning role of AI in trade, highlighting its applications, impacts, and future prospects. Drawing upon a synthesis of academic literature, industry reports, and real-world case studies, it delineates the diverse array of AI technologies being deployed across various facets of trade, including finance, logistics, marketing, and supply chain management. Furthermore, it delves into the evolutionary trajectory of AI in trade, tracing its development from basic automation to sophisticated predictive analytics and machine learning algorithms. Moreover, this abstract explores the implications of AI for trade efficiency, market competitiveness, and global economic dynamics, while also addressing pertinent challenges such as job displacement, data security, and ethical considerations. By providing insights into the transformative potential of AI for trade, these abstract aims to inform policymakers, industry stakeholders, and researchers alike, fostering a deeper understanding of its implications and guiding future endeavors in this rapidly evolving domain. This chapter delves into the transformative impact of Artificial Intelligence (AI) on global trade, underscoring a revolution that is reshaping industries, economies, and the very fabric of trade relations. AI's dynamic role extends from automating routine tasks to pioneering advanced strategies for market penetration, supply chain optimization, and customer service enhancement. By weaving through various sectors, this chapter illustrates AI's capacity to not only streamline operations but also to foster innovation, drive efficiency, and open new avenues for international trade.

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Through a blend of case studies, theoretical insights, and empirical analysis, the narrative unfolds to reveal how AI technologies are pivotal in navigating the complexities of modern trade, addressing challenges, and seizing opportunities in a rapidly evolving digital landscape. Artificial Intelligence (AI) has revolutionized numerous industries, and the realm of trade is no exception. This paper provides a comprehensive review of the utilization and evolution of AI in trade, exploring its various applications, benefits, challenges, and future prospects. By analyzing current trends and advancements, this research aims to shed light on the transformative impact of AI on trade practices worldwide.

#### Keywords:

Artificial Intelligence, Trade, Supply Chain Management, Trade Finance, Market Analysis, Customs, Automation, Predictive Analytics.

#### Introduction:

The advent of AI has marked a new era in the history of trade, introducing a spectrum of technologies that are fundamentally altering how businesses operate, compete, and thrive in the global market. From machine learning models predicting market trends to blockchain ensuring transparency in supply chains, AI is at the forefront of a trade revolution.<sup>1</sup>

In recent years, the integration of Artificial Intelligence (AI) into various sectors has catalyzed transformative changes, redefined traditional business paradigms and reshaping global trade dynamics. The intersection of AI and trade represents a pivotal point where technological innovation converges with economic activity, offering unprecedented opportunities and challenges. This comprehensive review endeavours to explore the multifaceted landscape of AI adoption in trade, elucidating its evolution, applications, impacts, and future trajectories. The advent of AI technologies, encompassing machine learning, natural language processing, and predictive analytics, has endowed trade-related industries with capabilities once deemed the realm of science fiction. From automating routine tasks to optimizing complex decision-making processes, AI has permeated every facet of trade, spanning finance, logistics, marketing, and supply chain management. Through advanced algorithms and data-driven insights, AI systems can uncover patterns, forecast trends, and optimize operations with unprecedented accuracy and efficiency.

<sup>&</sup>lt;sup>1</sup> Y. Syah, R. B., Muliono, R., Akbar Siregar, M., & Elveny, M. (2024, June 1). An efficiency metaheuristic model to predicting customers churn in the business market with machine learning based. IAES International Journal of Artificial Intelligence (IJ-AI), 13(2), 1547. https://doi.org/10.11591/ijai.v13.i2.pp1547-1556

However, the journey towards AI-enabled trade is not devoid of challenges. Concerns regarding job displacement, data privacy, algorithmic bias, and ethical implications loom large, necessitating a nuanced understanding of the socio-economic ramifications of AI adoption. Moreover, the democratization of AI technologies raises questions about equitable access and regulatory frameworks to ensure responsible and inclusive deployment. Against this backdrop, this comprehensive review aims to provide a holistic examination of the use and evolution of AI in trade.

Drawing upon a synthesis of scholarly research, industry reports, and real-world case studies, it seeks to delineate the current state-of-the-art practices, emerging trends, and future prospects in AI-driven trade. By critically analysing the opportunities and challenges inherent in AI adoption, this review aspires to inform policymakers, industry stakeholders, and researchers, facilitating informed decision-making and guiding future endeavours in this rapidly evolving domain.

In essence, the fusion of AI and trade represents a paradigm shift with profound implications for global commerce. As AI continues to mature and permeate trade ecosystems, understanding its transformative potential and navigating its complexities will be imperative for harnessing its benefits while mitigating risks. Through this comprehensive review, we embark on a journey to unravel the intricate tapestry of AI in trade, illuminating pathways towards a more efficient, inclusive, and sustainable global trading landscape. The integration of AI technologies in trade has significantly altered traditional business paradigms, facilitating enhanced decision-making, efficiency, and competitiveness. This section provides an overview of the growing significance of AI in trade and outlines the objectives of the study.

## **Objectives of the Study:**

The objective of this comprehensive review, titled "The Use and Evolution of Artificial Intelligence in Trade," is to thoroughly explore the multifaceted landscape of AI adoption within the trade sector. This study aims to provide a comprehensive overview of current AI practices across various trade domains, including finance, logistics, marketing, and supply chain management. By tracing the evolutionary journey of AI in trade, from basic automation to advanced cognitive computing, the review seeks to elucidate key milestones and technological advancements that have shaped its development.

Additionally, the study aims to analyze the implications of AI adoption on trade efficiency, competitiveness, and market dynamics, while also identifying opportunities and challenges associated with its integration. Through a synthesis of scholarly research, industry reports, and real-world case studies, this review endeavours to provide actionable insights and recommendations for policymakers, industry stakeholders, and researchers to foster responsible and sustainable AI adoption in trade.

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- 1. To provide a comprehensive overview of the current state-of-the-art practices in the utilization of Artificial Intelligence (AI) across various sectors of trade, including finance, logistics, marketing, and supply chain management.
- 2. To elucidate the evolutionary trajectory of AI in trade, spanning from rudimentary automation to sophisticated cognitive computing, and to identify key milestones, technological breakthroughs, and paradigm shifts that have shaped its development.
- 3. To examine the diverse array of AI technologies and methodologies being deployed in trade, including machine learning, natural language processing, predictive analytics, and autonomous systems, and to analyze their respective applications, strengths, and limitations.
- 4. To assess the implications of AI adoption on trade efficiency, competitiveness, and market dynamics, and to explore how AI-enabled technologies are reshaping business models, supply chain networks, and consumer behaviours.
- 5. To identify and analyze the opportunities and challenges associated with the use of AI in trade, including concerns related to job displacement, data privacy, algorithmic bias, and ethical considerations, and to propose strategies for mitigating risks and maximizing benefits.
- 6. To synthesize insights from scholarly research, industry reports, and real-world case studies to provide actionable recommendations for policymakers, industry stakeholders, and researchers aimed at fostering responsible, inclusive, and sustainable AI adoption in trade.
- 7. To contribute to the advancement of knowledge in the field of AI-enabled trade by identifying gaps in existing literature, highlighting areas for further research, and proposing future directions for academic inquiry and practical implementation.

By addressing these objectives, the study aims to provide a comprehensive and nuanced understanding of the use and evolution of AI in trade, offering insights that can inform decision-making, drive innovation, and shape the future of global commerce in the AI era.

#### **Evolution of AI in Trade:**

This section traces the evolutionary trajectory of AI in trade, from its nascent stages to the current state of advancement. It highlights key milestones, technological breakthroughs, and emerging trends shaping the future of AI-enabled trade practices.

The evolution of Artificial Intelligence (AI) in trade has been characterized by significant milestones, technological breakthroughs, and paradigm shifts that have reshaped the way businesses operate and economies interact. Initially, AI's role in trade was limited, primarily encompassing basic automation tasks and rule-based systems.

However, with advancements in computing power, data availability, and algorithmic sophistication, AI has evolved into a powerful tool driving innovation and efficiency across various trade sectors.<sup>2</sup>

- 1. Early Automation: The nascent stages of AI adoption in trade were marked by the automation of repetitive tasks such as data entry, transaction processing, and simple decision-making processes. Rule-based systems and expert systems were prevalent, albeit limited in their ability to adapt to changing circumstances and complex scenarios.
- 2. Machine Learning Revolution: The advent of machine learning algorithms, particularly supervised and unsupervised learning techniques, revolutionized AI's capabilities in trade. These algorithms enabled systems to learn from data, identify patterns, and make predictions or decisions without explicit programming. In trade, machine learning found applications in areas such as fraud detection, risk assessment, and customer segmentation.
- **3. Predictive Analytics:** The integration of predictive analytics, powered by AI and machine learning algorithms, enabled businesses to forecast future trends, market dynamics, and consumer behaviour with unprecedented accuracy. Predictive analytics became instrumental in optimizing inventory management, pricing strategies, and supply chain logistics, thereby enhancing trade efficiency and competitiveness.
- 4. Natural Language Processing (NLP): The advancement of natural language processing technologies enabled AI systems to interpret and generate human language, facilitating communication and interaction between traders, customers, and stakeholders. NLP found applications in trade through sentiment analysis, chatbots for customer service, and automated document processing, streamlining communication and decision-making processes.
- **5.** Cognitive Computing: The emergence of cognitive computing, encompassing AI technologies such as deep learning and neural networks, unlocked new frontiers in trade. These technologies enabled AI systems to simulate human-like cognitive abilities, including perception, reasoning, and problem-solving. In trade, cognitive computing found applications in complex decision-making tasks, such as portfolio optimization, risk management, and trade finance.
- 6. Autonomous Systems: The convergence of AI with robotics and Internet of Things (IoT) technologies led to the development of autonomous systems capable of executing tasks and making decisions without human intervention. In trade, autonomous systems

<sup>&</sup>lt;sup>2</sup> Nandish, M. (2023, June 23). How has the rapid growth of Artificial Intelligence impacted business management? A case study of prominent organizations that have experienced significant incline in growth due to adaptation to AI advancements. International Journal of Research Publication and Reviews, 4(6), 4124–4130. https://doi.org/10.55248/gengpi.4.623.47437

revolutionized logistics, warehouse management, and transportation, enhancing efficiency, reducing costs, and minimizing errors.

Overall, the evolution of AI in trade has been characterized by a transition from rudimentary automation to sophisticated cognitive computing, enabling businesses to unlock new levels of productivity, innovation, and competitiveness. As AI continues to advance and permeate every aspect of trade, its transformative impact is expected to accelerate, reshaping global trade landscapes and paving the way for a new era of interconnected, intelligent commerce.

#### **Future Prospects and Implications:**

Looking ahead, this section discusses the future prospects and implications of AI in trade, including:

- Continued integration of AI technologies across trade processes
- Expansion of AI applications in emerging markets and industries
- Collaboration between stakeholders to address challenges and harness AI's full potential.

The future of Artificial Intelligence (AI) in trade holds immense promise, poised to drive further innovation, efficiency, and competitiveness across global markets. As AI technologies continue to advance and evolve, several key trends and implications are likely to shape the trajectory of AI-enabled trade in the coming years.<sup>3</sup>

- 1. Enhanced Trade Efficiency: AI's ability to automate processes, optimize operations, and extract insights from vast datasets will continue to enhance trade efficiency. From streamlined supply chain management to real-time risk assessment and predictive pricing strategies, AI will enable businesses to operate with greater agility and responsiveness, reducing costs and improving productivity.
- 2. **Data-Driven Decision-Making:** The proliferation of AI in trade will usher in an era of data-driven decision-making, where businesses leverage advanced analytics and predictive modelling to inform strategic choices. By harnessing AI's capabilities to extract actionable insights from complex data streams, traders can identify emerging trends, anticipate market fluctuations, and capitalize on new opportunities more effectively.
- 3. **Personalized Customer Experiences:** AI-powered technologies such as natural language processing and machine learning algorithms will enable businesses to deliver

<sup>&</sup>lt;sup>3</sup> Sreeram, S. (2019, January 11). Artificial intelligence and jobs of the future. AI Matters, 4(4), 22–28. https://doi.org/10.1145/3299758.3300060

personalized customer experiences at scale. From tailored product recommendations to conversational commerce interfaces and virtual assistants, AI will enable traders to engage with customers in more meaningful and contextually relevant ways, driving customer satisfaction and loyalty.

- 4. **Regulatory and Ethical Considerations:** As AI becomes increasingly integrated into trade operations, policymakers and regulators will face new challenges in ensuring responsible and ethical AI deployment. Issues such as data privacy, algorithmic bias, and transparency will require careful consideration to mitigate potential risks and safeguard consumer rights while fostering innovation and competition.
- 5. **Workforce Transformation:** The widespread adoption of AI in trade will necessitate workforce transformation, with roles evolving to focus more on tasks that require human judgment, creativity, and emotional intelligence. While AI has the potential to automate routine tasks and increase productivity, it may also lead to job displacement in certain sectors, highlighting the importance of reskilling and upskilling initiatives to ensure a smooth transition to the AI-enabled workforce of the future.
- 6. **Global Trade Dynamics:** AI's impact on trade extends beyond individual businesses, influencing broader economic and geopolitical dynamics. As AI-enabled technologies reshape supply chains, logistics networks, and market access, they will have farreaching implications for global trade patterns, regional competitiveness, and the distribution of economic power.

The future of AI in trade holds immense promise for driving innovation, efficiency, and competitiveness in global markets.

However, realizing this potential will require proactive efforts to address regulatory, ethical, and workforce challenges while harnessing AI's transformative capabilities to unlock new opportunities for economic growth and prosperity.<sup>4</sup>

"By embracing AI as a strategic enabler of trade, businesses and policymakers can navigate the complexities of an increasingly interconnected and data-driven global economy, shaping a more resilient, inclusive, and sustainable trading landscape for the future." <sup>5</sup>

<sup>&</sup>lt;sup>4</sup> Bhalla, N., Brooks, L., & Leach, T. (2023, December 4). Ensuring a 'Responsible' AI future in India: RRI as an approach for identifying the ethical challenges from an Indian perspective. AI And Ethics. https://doi.org/10.1007/s43681-023-00370-w

<sup>&</sup>lt;sup>5</sup> More, S. J. (2007, September 1). Shaping our future: animal health in a global trading environment. Irish Veterinary Journal, 60(9). https://doi.org/10.1186/2046-0481-60-9-540

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### **Applications of AI in Trade:**

Certainly! AI is revolutionizing various aspects of trade with its capabilities to analyze data, automate processes, and make informed decisions. Here are some additional applications of AI in trade:

- 1. Trade Negotiation Support: AI can analyze historical trade agreements, market trends, and geopolitical factors to provide insights and recommendations to negotiators. Natural language processing (NLP) algorithms can also assist in summarizing complex legal documents and identifying potential areas for compromise.
- **2. Logistics Optimization**: AI algorithms optimize transportation routes, minimize shipping costs, and reduce delivery times by analyzing factors such as weather conditions, traffic patterns, and transportation capacities. This enhances efficiency and reliability in the movement of goods across borders.<sup>6</sup>
- **3.** Customer Relationship Management (CRM): AI-powered CRM systems help companies manage relationships with customers, suppliers, and partners more effectively. By analysing communication data, sentiment analysis algorithms can identify customer preferences, anticipate needs, and personalize interactions, leading to improved customer satisfaction and loyalty.
- 4. Trade Documentation Automation: AI automates the generation, verification, and processing of trade documents such as invoices, bills of lading, and certificates of origin. Optical character recognition (OCR) technology converts paper-based documents into digital formats, reducing manual data entry errors and streamlining document workflows.
- **5. Supply Chain Transparency**: AI-enabled blockchain platforms enhance transparency and traceability in supply chains by recording transactions and tracking the movement of goods from production to consumption. This helps companies ensure ethical sourcing, comply with regulatory requirements, and address issues such as counterfeiting and product recalls.
- 6. Predictive Maintenance: AI-driven predictive maintenance systems analyze sensor data from machinery and equipment to anticipate maintenance needs and prevent costly downtime. By detecting anomalies and predicting failures in advance, companies can optimize asset utilization and minimize disruptions in production and distribution processes.
- **7. Trade Compliance Monitoring**: AI algorithms monitor regulatory changes, sanctions lists, and trade policies to ensure compliance with international trade regulations. By

<sup>&</sup>lt;sup>6</sup> Pathivada, B. K., & Perumal, V. (2019, January). Analyzing dilemma driver behavior at signalized intersection under mixed traffic conditions. Transportation Research Part F: Traffic Psychology and Behaviour, 60, 111–120. https://doi.org/10.1016/j.trf.2018.10.010

flagging potential violations and assessing risks in real-time, companies can mitigate compliance risks and avoid penalties associated with non-compliance.

8. Market Intelligence: AI-powered analytics platforms gather and analyze market data, consumer trends, and competitor strategies to provide actionable insights for strategic decision-making. Machine learning algorithms can identify emerging market opportunities, predict demand fluctuations, and optimize pricing strategies to gain a competitive edge in global markets.

These applications demonstrate how AI is reshaping trade operations, from optimizing supply chains and streamlining finance processes to enhancing market analysis and ensuring regulatory compliance. As AI technologies continue to evolve, their impact on trade is expected to grow, driving innovation and efficiency across the global economy.

### **Revolutionizing Market Analysis with AI:**

Ability to process and analyze vast datasets has given businesses unprecedented insights into market trends, consumer behaviour, and competitive dynamics. This section examines how AI-powered tools are enabling businesses to make informed strategic decisions, tailor their product off Here's an expansion on how AI is revolutionizing market analysis:

- 1. Data Processing and Analysis: AI-powered tools can process and analyze vast amounts of structured and unstructured data from various sources, including social media, consumer reviews, and economic indicators. Natural language processing (NLP) algorithms extract insights from text data, sentiment analysis identifies consumer preferences, and machine learning models detect patterns and trends in market behaviour.<sup>7</sup>
- 2. Real-time Market Monitoring: AI algorithms continuously monitor market conditions, competitor activities, and consumer sentiment in real-time. This enables businesses to react quickly to changes in demand, pricing dynamics, and emerging trends, allowing them to stay ahead of competitors and capitalize on market opportunities.
- **3.** Consumer Behaviour Analysis: AI-powered analytics platforms analyze consumer behaviour across multiple channels and touchpoints, providing a comprehensive view of customer preferences, purchasing patterns, and brand interactions. Predictive analytics algorithms forecast future buying behaviour, enabling businesses to

<sup>&</sup>lt;sup>7</sup> Dangi, D., Dixit, D. K., & Bhagat, A. (2022, July 25). Sentiment analysis of COVID-19 social media data through machine learning. Multimedia Tools and Applications, 81(29), 42261–42283. https://doi.org/10.1007/s11042-022-13492-w

personalize marketing strategies, optimize product offerings, and enhance customer engagement.

- 4. Competitive Intelligence: AI-driven competitive intelligence tools analyze competitor strategies, product launches, pricing changes, and customer feedback to identify strengths, weaknesses, and opportunities in the market. By benchmarking performance against industry peers and identifying competitive threats, businesses can refine their positioning, differentiate their offerings, and develop effective market strategies.
- 5. Market Segmentation and Targeting: AI algorithms segment the market based on demographic, psychographic, and behavioural attributes, enabling businesses to identify target audiences with precision. Predictive modelling techniques identify high-value customer segments, allowing businesses to tailor their marketing messages, customize product features, and optimize resource allocation for maximum impact.
- 6. Forecasting and Trend Prediction: AI-powered forecasting models use historical data, market trends, and external factors to predict future demand, sales volumes, and revenue projections with accuracy. By incorporating machine learning algorithms, these models adapt to changing market dynamics and refine their predictions over time, providing valuable insights for strategic planning and resource allocation.
- 7. Product Innovation and Development: AI-driven market analysis helps businesses identify unmet customer needs, emerging trends, and niche market segments, guiding product innovation and development efforts. By leveraging insights from consumer feedback, competitor analysis, and trend forecasting, businesses can prioritize R&D investments, optimize product features, and bring new offerings to market faster.
- 8. Risk Assessment and Mitigation: AI algorithms assess market risks, such as demand volatility, supply chain disruptions, and regulatory changes, to inform risk management strategies and contingency planning. By identifying potential threats and vulnerabilities in advance, businesses can mitigate risks, protect against financial losses, and maintain resilience in competitive markets.

AI is revolutionizing market analysis by empowering businesses to harness the power of data, gain actionable insights, and drive informed decision-making. By leveraging AI-powered tools and techniques, businesses can stay agile, responsive, and competitive in today's dynamic and fast-paced markets.

#### **Conclusion:**

The chapter concludes by reflecting on the future trajectory of AI in trade. It emphasizes the need for ongoing research, development, and collaboration between policymakers, technologists, and business leaders to harness AI's full potential responsibly. As AI continues to evolve, its role in shaping the future of trade is undeniable, offering both opportunities and challenges that will define the next era of global commerce. this paper emphasizes the transformative impact of AI on trade practices, underscoring its potential to drive innovation, efficiency, and competitiveness in the global marketplace. By addressing challenges and capitalizing on emerging opportunities, stakeholders can leverage AI technologies to navigate the evolving landscape of international trade successfully. This exploration into AI dynamics reveals a trade revolution that is not only reshaping existing practices but also charting the course for the future of international trade. The insights provided in this chapter aim to equip readers with a deeper understanding of AI's transformative impact, encouraging a proactive approach to embracing AI technologies in navigating the complexities of the global trade landscape.

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