

THE ROLE OF ARTIFICIAL INTELLIGENCE IN DRIVING BUSINESS INNOVATION: A MULTI-INDUSTRY ANALYSIS

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Abstract: Artificial Intelligence (AI) distinguishes itself as a key driver of business innovation and competitive advantage, in what has become the digital age. Using qualitative synthesis across 30 peer-reviewed studies and reports from industry councils, this article investigates the transformative impact of AI across industry sectors - healthcare, finance, manufacturing, and retail - published between 2018 and early 2024. By reviewing the literature using systematic methods and comparing the comparative reports to synthesise findings, it identifies how AI-based technologies are reshaping companies' futures by reshaping operations, decision-making processes, and accelerating innovation cycles. The synthesis indicates AI adoption rates made up of a nearly 40 percent increase in adoption globally from 2018 to 2023, with finance and manufacturing having the highest adoption rates owing to digitization and data intensity. Comparative to the rates associated with North America and Western Europe, developing economies lag behind on account of barriers such as expenses associated with implementation, limited digital infrastructure, and the development of professionals in AI. The findings of the study demonstrate that while AI adoption appears to provide a higher degree of efficiency and strategic advantage to businesses, the decision to invest in AI, capacity training, and policies must be identified and balanced for sustainable economies into the future. The paper concludes with several strategic recommendations that businesses and policy makers can consider for their own strategic planning processes as a consideration in pursuit of an equitable outcome of AI innovation for all nations, regions and economies across the globe.

Keywords: Artificial Intelligence, Business Efficiency, Business Innovation, Decision-Making, Developing Economies, Industry Adoption, Strategic Planning.

I. INTRODUCTION

The rise of Artificial Intelligence (AI) as a catalyst of change and a source of competitive advantage in the world of business has transformed how industries operate, often in considerable ways, using upward channels of automation, analytics, and decision making. AI tools such as machine learning, natural language processing, and predictive analytics make it possible for organizations to automate processes, personalize services, and optimize operations. Using AI enhances productivity and competitiveness across industries and is a necessity for organizations wishing to maintain their competitive advantage in a data driven economy. While research exists on the impacts of AI on single industries, such as healthcare (Topol, 2019), finance (Goodell & Huynh, 2021), and manufacturing (Ivanov et al., 2020), little exists that considers its impacts across multiple industries or provides comparative insights across industries. Reports from McKinsey (2023), Deloitte Insights (2023), and OECD (2023) focused primarily on industry level results, without an integrated perspective. This research begins to address these gaps by synthesizing global findings from 2018-2024 through a comparative lens to identify common enablers and barriers to AI-led innovation. It has been recognized in the literature on AI that its reach has continued to grow across industries, and is an important topic of analysis due to its impact on competitiveness and as a driver of transformation

(Dwivedi et al., 2023; Ransbotham et al., 2022). However, a comprehensive analysis across industries remains limited. This study will serve as a first step in that direction by synthesizing work on AI across industries.

The aims of this research are:

- To understand the implications of AI on business processes and innovation strategies across industries.
- To situate key trends in AI adoption and implementation across industries.
- To assess the differences of AI utilization within developed countries compared to developing countries.
- To evaluate the challenges organizations are facing along with the potential solutions to adopting AI.

By addressing these aims through a structured qualitative synthesis of recent literature, the following paper attempts to contribute to a more holistic understanding of how AI leads to business innovation across the economic contexts.

II. LITERATURE REVIEW

A. Theoretical Foundations of AI-Driven Innovation

Adoption of Artificial Intelligence can be explained through several theoretical perspectives of innovation. One perspective is Schumpeterian Innovation Theory, which sees innovation as the key driver of economic evolution and competitive advantage (Schumpeter, 1934). Rogers' Diffusion of Innovations (DOI) Theory provides a theory about how new technologies spread through social systems based on their perceived utility and complexity (Rogers, 2003). In the case of AI, these two specific theories provide understandings as to why sectors heavily reliant on data (finance and manufacturing, for instance) are more likely to see a higher rate of innovation gains. Further, the Technology – Organization – Environment (TOE) (Tornatzky & Fleischer, 1990) theory provides an analytical lens to understand the role of an organization's readiness to adopt AI, technological maturity, and external pressure on the decision to adopt AI. All of the aforementioned analytical frameworks provide this study with a strong conceptual foundation that links diffusion of AI to other models and frameworks of technology change.

B. Overview of AI's Influence on Innovation

Artificial Intelligence has transformed business innovation through automation, predictive analytics and real-time data analysis. AI increases efficiency, lowers costs of operation, and informs fact-based decision-making (Brynjolfsson & McAfee, 2017). Companies such as Amazon and Tesla illustrate how AI enabled systems optimize efficiency, and accelerate innovation spans. AI-based transformations have increased efficiency by as much as 25 percent across many industries, allowing for improvement of processes and the development of completely new digital business models (McKinsey, 2021). The innovation lifecycle process coincides with Rogers' Diffusion of Innovation (DOI) Theory and the Technology-Organization-Environment (TOE) Framework which indicates technology adoption is reliant on internal capacity and conditions of the external environment.

C. Case Studies from Different Industries

1) AI in Healthcare: AI supports the diagnosis, drug discovery, and patient management using advanced algorithms and predictive analytics (Esteva et al., 2017; Topol, 2019). The pace has been slower because of regulatory and ethical issues; however, the potential impact on healthcare quality and optimization of resources is significant.

2) AI in Finance: AI disruption is evident in financial services within fraud detection, risk modeling, and automated trading (Goodell et al., 2021; Chorafas, 2018). Machine learning supports decision making in real-time and as a basis for personalized recommendations about financial products. In emerging markets, AI adoption enables better precision in managing risk and supports financial inclusion (Kapoor & Dwivedi, 2024).

3) AI in Manufacturing: AI technologies, specifically robotics, predictive maintenance, and analytics in supply chains, help to improve productivity, resilience, and organizational efficiency (Ivanov et al., 2020; Bessen, 2019). Evidence indicates significant and measurable productivity and innovation gains in a variety of economic situations (Mariani & Fosso Wamba, 2023), indicating the importance of AI, data, and smart manufacturing in competitiveness and digital transformation.

4) AI in Retail: Retailers utilize AI to engage customers through personalized marketing, automated inventory control, and demand prediction and forecasting (PwC, 2022; Deloitte Insights, 2023). These functions support and enhance customer relationships and operational flexibility, furthering AI as a key enabler of consumer-centric innovation.

D. Comparison of AI Adoption in Developed vs. Developing Economies

Civilizations Worldwide implementations of AI differ, given the infrastructure and expertise and regulations that often separate developed and developing economies. In developed economies like Germany and the US, R&D pipeline viability and regulatory clarity make it a more accessible tool for organizations (OECD, 2020). In comparison, developing societies often operate with less expertise and weaker versions of infrastructure. Nonetheless, we see AI usage increase in countries in Africa and Southeast Asia as mobile-based AI facilitates financial inclusion and healthcare (World Economic Forum, 2021; Nguyen et al, 2022). The dissemination of this technology speaks primarily to the perspectives provided by TOE-DOI theoretical frameworks and how environmental factors and organizations shape readiness for adoption, in both SMEs or large organizations (Elia et al, 2022). While other theories about the broader innovation ecosystem are connecting and associating the theory of innovation with a sense of policy, entrepreneurship, and moral context (Nambisan et al.,2023).

AI, while in its infancy around the globe, has potential for closing AI innovation gaps. Increasing investment and knowledge transfer can help some developing countries enhance their AI ecosystems. According to PwC (2021), AI's contribution to the global economy can be as much as \$15.7 trillion by 2030, and developing or emerging markets can expect to capture a growing share of this contribution.

III. METHODOLOGY

This research follows a pre-planned qualitative approach, using a narrative systematic literature synthesis method to analyze how Artificial Intelligence (AI) is propelling business innovation in sectors like healthcare, finance, manufacturing, and retail. The literature selection has a focus on publications from 2018 to early 2024, resulting in a final corpus of 30 peer-reviewed articles, industry reports, and case studies.

A. Search Strategy

This research included a broad search of the academic or technical literature and industry reports utilizing a variety of databases, such as Scopus, Web of Science, and Google Scholar, as well as reports from McKinsey, PwC, OECD, and the World Economic Forum. Search terms included concepts of AI and business innovation: ("Artificial Intelligence" OR "AI" OR "machine learning") AND ("business innovation" OR "digital transformation" OR "competitive advantage" OR "adoption") AND ("healthcare" OR "finance" OR "manufacturing" OR "retail"). Only English-language documents, within the publication years of 2018–2024, were included in the review. Further sources were identified through citation chaining to capture all relevant work.

B. Inclusion and Exclusion Criteria

Studies had to include the following criteria for inclusion:

- Published in English between 2018–2024.
- Addressed AI adoption, implementation, or innovation outcomes in at least one of the four key industries or between industries.
- Reporting empirical data, case evidence, or industry-level analyses.

The following were excluded: opinion editorial writing, blogs, unvetted preprints, or purely technical algorithm studies with no business implications.

C. Selection and Screening Process

An initial **74 records** were identified through database searches. After removing duplicates and screening titles and abstracts (**n = 55**), **40 full-text studies** were assessed for eligibility. Following quality evaluation, **30 studies** met the inclusion criteria for final synthesis.

D. Data Extraction and Synthesis

Data were systematically extracted from each study into a standardized table listing: author(s), year, source type, region, focal industry type, research method, key findings, and noted enablers or barriers to AI adoption.

A thematic analysis approach was employed to identify patterns across studies. Themes were organized into three analytical dimensions:

1. Trends of AI adoption
2. Business impacts (efficiency, decision-making, speed of innovation, etc)
3. Challenges and implications for policy.

E. Quality and Credibility Checks

To guarantee validity, peer-reviewed articles were prioritized for theoretical and empirical knowledge, while industry reports primarily presented trend and market-size data. Different findings were compared and discussed with the intent of strengthening the analysis.

IV. RESULTS AND DISCUSSION

Using the literature and industry data that were synthesized, three broad dimensions stem from the role of AI in transforming innovation in organizations: trends in adoption, effects on performance, and barriers to the implementation.

A. AI Adoption Trends Across Industries

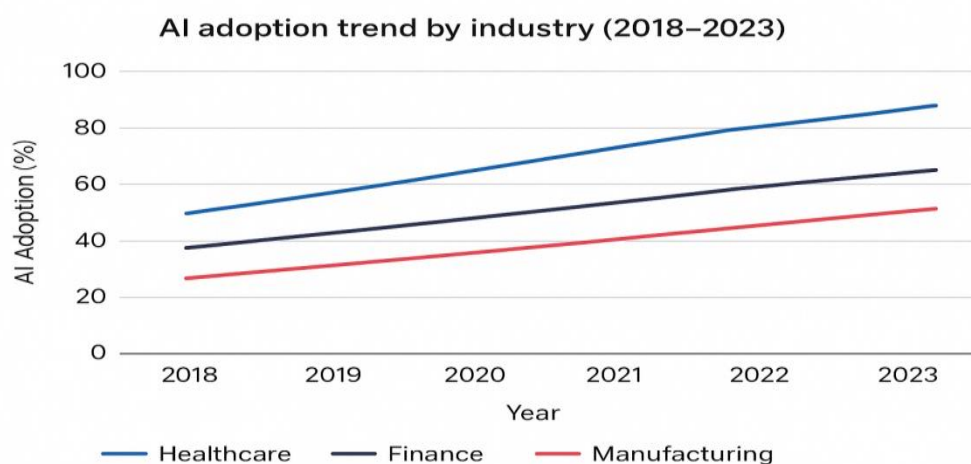
AI adoption has grown exponentially, with each industry integrating technologies at varying speeds depending on data availability, automation potential, and regulatory complexity.

TABLE I: AI Adoption Rates by Sector (2023)

Industry	AI Adoption Rate (%)	Key AI Applications
Healthcare	67%	Diagnostics, predictive analytics
Finance	80%	Fraud detection, automated trading
Manufacturing	74%	Predictive maintenance, automation
Retail	69%	Personalized recommendations, forecasting

(Data Source: McKinsey & Company, 2023)

The finance sector has the highest rate of adoption at 80%, likely reflective of the fact that this sector was an early adopter of systems with automated algorithmic decision-making, while healthcare continues to expand albeit at a much slower pace due to greater ethical and regulatory constraints. From a Schumpeterian perspective, the finance sector typifies his notion of "creative destruction" in that tasks formerly completed by individuals are being replaced with automation, while healthcare provides an example of Rogers' Diffusion of Innovation (DOI) model, which describes technology-adoption behavior in new technologies (as an example, the health sector is much slower to adopt), and engaging flowing complexity this presents the health sector adopting new technology with higher risk. Within the TOE framework, these differences demonstrate how internal readiness and external contingencies can differentially shape the degree of adoption.



Source: Compiled from McKinsey (2023) and PwC (2022)

Fig. 1. AI Adoption Trend by Industry (2018–2023)

The trajectory exhibits clear increases in adoption within each industry studied, with finance and manufacturing seeing the fastest increases. Healthcare and retail are also increasing but are in a slower adoption pathway due to complexity in customer implementation and compliance with regulations. The DOI theory places finance and manufacturing in early anticipation nearing the early majority category, while the TOE theory suggests that there are increasing global maturity levels in technology with organizational support. The trajectory demonstrates Schumpeterian innovation theory that describes the disruption and competitive advantage associated with the adoption of these AI technologies.

B. Comparative Regional Adoption Trends

TABLE II: AI Adoption by Region (2023)

Region	Average Adoption Rate (%)	Leading Sector
North America	82%	Finance
Europe	76%	Manufacturing
Asia-Pacific	71%	Healthcare
Latin America	58%	Retail
Africa	52%	Agriculture

Source: McKinsey Global Survey on AI (2023)

The developed regions of North America and Europe have established digital infrastructures, stable investment in R&D, and access to talent, while Latin America and Africa struggle with available resources and skill. From the TOE perspective, the differences between regions reflect the differences in technological and organizational readiness. DOI theory places these organizations in the early majority stage, as they are advancing quickly and at the same time are dealing with infrastructure and policy. Regions that continue to develop rely heavily on mobile-based innovation and public-private partnerships to fast track these "early majority" and bridge the technological and organizational readiness gap, particularly in agriculture and fintech.

C. Industry-Specific Discussions

1) Healthcare

Healthcare is made up of several different AI applications in the fields of diagnostic imaging, predictive analytics, and precision medicine (Esteva et al., 2017; WHO, 2020). Adopted values are clearly cautious in their adoption case as a large degree of ethical oversight is involved. However, AI can help proactively inform hospital management and support early disease detection. Based on Schumpeter's perspective, healthcare is a classic incremental near-field revolutionary innovation, as AI is playing an operational optimization rather than a radical revolutionary process. But the digital transformation in telehealthcare and electronic health record management indicates a path of sustainable innovation.

2) Finance

Finance is perhaps the most advanced field of the original application of machine learning AI to optimize solutions for fraud detection, risk modeling, and algorithmic trading (Goodell & Huynh, 2021; Kapoor & Dwivedi, 2024). From the DOI perspective, the finance sector represents the "late majority" adoption element within DOI, where this purpose has been principally observed across society. In the TOE and its readiness perspective, this sector must connect technology to readiness for adopting external pressure in competitive market externalities. The adoption of AI applications is more than just enhancing organizational and transactional efficiency. In the care domain of any financial ecosystem, AI applications enhance that ecosystem's stability as a "predictive" tool for predicting the care process, thus representing Schumpeter's cycle of a technology-based disruptive innovation process whose outputs influence the market and returns to a new center equilibrium.

3) Manufacturing

The application of AI in manufacturing is focused on the use of robotics, predictive maintenance, and smart supply chains (Ivanov et al., 2020). The COVID-19 crisis drove the accelerated automation of workflows and processes to enhance resilience and productivity. The context in which this is referred to as a manifestation of a Schumpeterian shift to a new industrial paradigm of intelligent, data-driven production. According to the Technology, Organization, Environment (TOE)

model, the prior ability to automate remains the strongest predictor of the successful implementation of artificial intelligence. These advancements in manufacturing technologies are consistent with the principles of Industry 4.0 where artificial intelligence is symbiotic with the Internet of Things (IoT) and smart manufacturing.

4) Retail

AI in retail can be leveraged for demand forecasting, promotional marketing, and inventory management (PwC, 2022; Deloitte Insights, 2023). Improvements in efficiency range from 20%–35% through adjustments aided by real-time analytics and adaptive recommendation systems. Retail is likely characterized by a reinvention phase identified within Diffusion of Innovations (DOI) where artificial intelligence continuously adapts the consumption based on people feedback. Ultimately, the process generates consumer centered innovation which increases customer loyalty and strategic agility; two key characteristics of digital transformation.

D. Impact on Business Efficiency, Decision-Making, and Competition

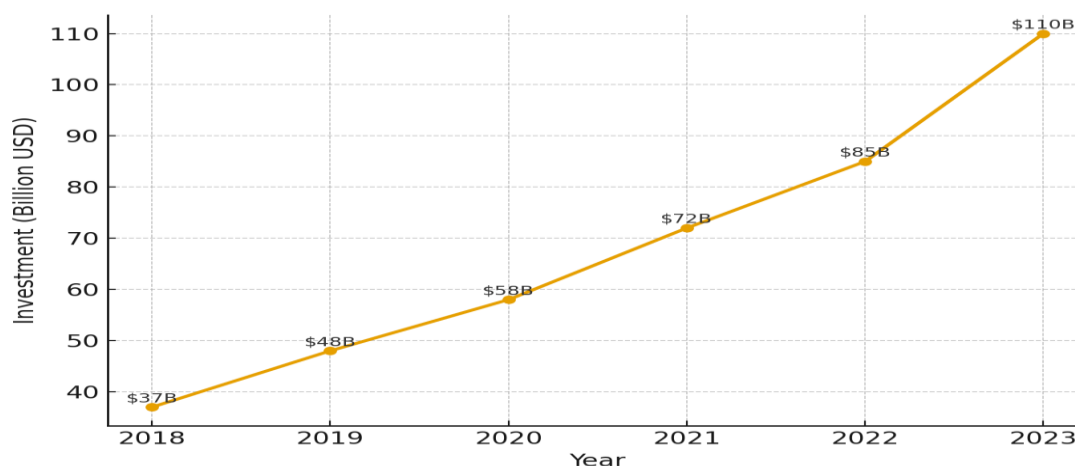
Adopting artificial intelligence improves efficiency by automating the repetitive tasks, provides a reduction in human errors, and improves data-driven decision making. According to PwC (2022), organizations driven by AI, on average, improved their costs by 30% and improved their overall decision making capabilities by 45%.

TABLE III: Measured Impact of AI by Sector

Sector	Cost Reduction(%)	Efficiency Gain(%)	Innovation Speed(%)
Healthcare	25%	38%	22%
Finance	32%	45%	28%
Manufacturing	40%	47%	30%
Retail	20%	35%	18%

Source: PwC (2022); Deloitte Insights (2023)

Manufacturing and finance show the highest performance gains due to established automation ecosystems. Research (Li et al., 2023) suggests that AI-enabled digital transformation improves productivity and innovation in producer services and manufacturing sectors, validating the Schumpeterian innovation cycle, in which firms secure early advantages by adopting new technology and investing in its efficiencies over time.



Source: Statista (2024), World Economic Forum Reports

Fig. 2. Global AI Investment Growth (USD Billions)

Global AI investment increased from \$37B in 2018 to \$110B in 2023, a nearly three-fold increase in five years.

- Schumpeterian lens: indicative of a wave of disruptive innovation leading to entrepreneurial investment.
- TOE framework: evidence of increased environmental readiness: funding, policy support, and ecosystem establishment.
- DOI theory: evidence of a shift from early adopters to early majority diffusion globally.

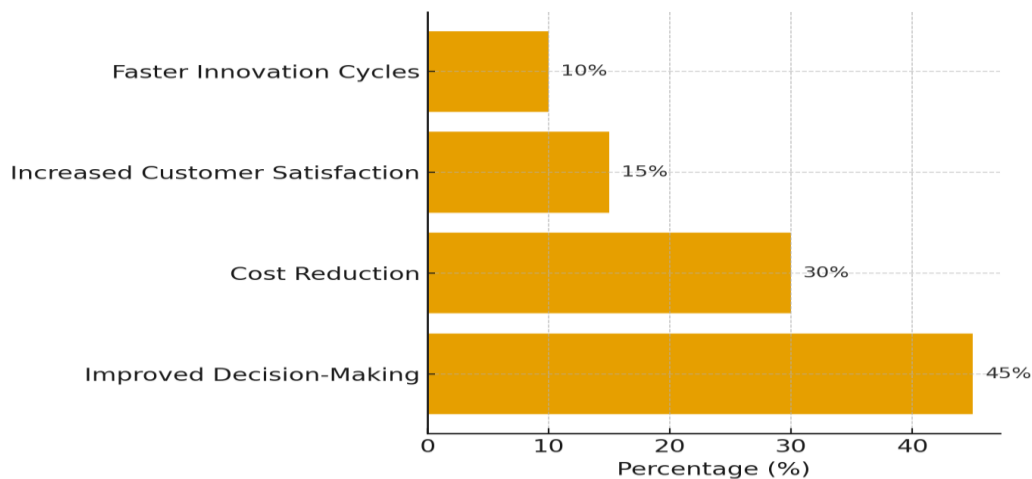


Fig. N. Business Leaders' Perceived AI Benefits (PwC, 2022)

When surveyed, firms indicated that the value of AI innovation was primarily focused on decision making (45%) and cost reduction (30%), and less to speed of innovation (10%).

- DOI: managerial perceptions shape the speed of adoption; as benefits of AI implementation move from efficiency to the potential for innovation, overall cultural shifts occur.
- TOE: leadership vision and data literacy impact benefits realized.
- Schumpeter: reflects the evolution of technological innovations through productivity improvements to new product-market paradigms of innovation.

E. Challenges and Future Outlook

While there are substantial benefits, there are also challenges - cost, regulatory issues, data privacy, and a lack of professionals who can work in AI.

TABLE IV: Top AI Adoption Challenges (OECD, 2023)

Challenge	Frequency(%)
Lack of skilled professionals	68%
High implementation costs	61%
Data privacy and regulation	57%
Legacy system integration	46%

These challenges are evidence of the environmental limitations set by the technology-organization-environment framework and points to organizational readiness limits in developing markets. Zhou et al. (2022) suggested these constraints are most acute in emerging economies, where companies depend on adaptive strategies to mitigate cost and capability shortfalls.

To overcome these barriers will require public-private collaboration, regulatory alignment, and human capital investment. In the future, generative AI, cloud computing, and edge AI is likely to enhance the pace of adoption in underdeveloped regions. Companies prioritizing employee upskilling and the responsible governance of AI are primed for sustainable competitive advantage.

V. CONCLUSION

A. Summary of Key Findings

This study assessed the transformative impacts of Artificial Intelligence (AI) across health, finance, manufacturing, and retail sectors on business innovation. The findings have indicated in the operational efficiencies, accuracy of decision making, and performance of innovation can significantly improve as a result of adoption. Overall, AI has provided companies with a 30% reduction in operational costs and 45% more accurate decision making on average. However, the

implementation of artificial intelligence is still constrained by longstanding issues: high implementation costs, the risk of data privacy, and a shortage of skilled professionals, especially in developing and emerging economies where technology infrastructure and institutional support are still in progress.

B. Theoretical and Practical Contributions

From a theoretical contribution, this paper adds to the understanding of AI adoption from a Schumpeterian innovation theory perspective, the Diffusion of Innovation (DOI) perspective, and the Technology–Organization–Environment (TOE) institutional perspective, showing how AI operates as both a technological enabler and as a strategic disruptor of organizations, leading to new organizational renewal through creative destruction. By integrating evidence from across industries and contexts, the research integrates the creation of classical innovation theory and the realities associated with digital transformation through the lens of organizational adaptation. From a practical perspective, it highlights important enablers of successful AI adoption related to preparation for data infrastructure, employee upskilling, and agile governance. These findings can inform practice for business leaders and policy makers regarding building resilient and innovation driven organizations. As Iansiti and Lakhani (2020) note, firms will promote superior adaptability and sustained competitive advantage by embedding AI into core strategy.

C. Limitations and Suggestions for Future Research

Limitations of this study include the use of secondary data and qualitative synthesis, which restrict causal conclusions. It is important that future studies conduct mixed-method studies (surveys, panel data, and case-based studies) to provide empirical evidence for the observed trends. In addition, an expansion of this research area to the emerging disciplines of education, energy, and logistics can provide an understanding of the wider socio-economic implications of AI. Finally, ethical governance is important to support the sustainable development of AI. As stated in Dutta and Bose (2024), transparent AI governance frameworks will be the centerpiece to responsible innovation and equitable outcomes in the next stage of the global digital transformation.

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