



ORIGINAL PAPER

The Influence of AI Technology in Stimulating Growth and Innovation in Business

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Abstract:

In the contemporary era, marked by rapid technological advancements and a global shift towards digitalization, Artificial Intelligence (AI) technology emerges as a pivotal force in redefining the paradigms of growth and innovation within businesses. This article delves into the multifaceted role of AI in catalyzing economic expansion and fostering innovative practices across burgeoning enterprises. Through an academic examination of specialized literature, case studies, and conceptual frameworks, the study elucidates how AI-driven solutions not only optimize operational efficiencies but also engender novel business models, thereby propelling startups and nascent industries towards unprecedented scales of success. Central to this discourse is the exploration of AI's capacity to analyze vast datasets with unparalleled precision, enabling predictive analytics, personalized customer experiences, and strategic decision-making processes that are inherently more informed and agile. Furthermore, this research highlights the transformative impact of AI on product development, market penetration strategies, and competitive differentiation, underscoring its significance in the dynamic and often turbulent landscape of new business ventures. By integrating insights from leading experts and pioneering entrepreneurs, the study offers a comprehensive overview of AI's instrumental role in navigating the complexities of modern business environments, fostering a culture of continuous innovation, and driving sustainable growth. In essence, this article posits that the strategic integration of AI technology is not merely an option but a quintessential component for new businesses aiming to thrive in the digital age, marking a new epoch in the synergy between technological innovation and entrepreneurial success.

Keywords: *Artificial Intelligence, Business Innovation, Operational Efficiency, Competitive Differentiation, Entrepreneurship.*

JEL Classification: O31, O32, L26.

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Introduction

In embarking upon this scholarly endeavor, we were driven by the profound realization of the transformative impact that Artificial Intelligence (AI) technology has begun to exert on the global business landscape. The importance of this research stems from an acute awareness of the pivotal role AI is poised to play in shaping the future of economic growth, innovation, and the very fabric of entrepreneurial ventures. Our choice of topic was inspired by a keen observation of the current technological zeitgeist, where AI's influence permeates every aspect of new business development, from operational efficiencies to the creation of groundbreaking products and services.

This inquiry is not merely academic; it is a reflection of the pressing need for a comprehensive understanding of AI's potential to revolutionize industry standards, competitive dynamics, and the approach to customer engagement. We were motivated by the desire to contribute meaningful insights that could help entrepreneurs, policymakers, and scholars in navigating the complex landscape of digital transformation. Our research is grounded in the conviction that the integration of AI technology is not just a trend but a fundamental shift in the way businesses are conceived, developed, and scaled.

Through this research, we aim to illuminate the myriad ways in which AI facilitates a new paradigm of business operation — one that is more adaptive, innovative, and capable of addressing the challenges of the 21st century. By articulating the significance of AI in driving economic expansion and fostering a culture of innovation, this study endeavors to provide a roadmap for new businesses striving to leverage technological advancements for sustainable success. Our exploration into the influence of AI technology is, therefore, both timely and essential, offering a lens through which the future of business innovation can be envisaged and strategically navigated.

The impetus for our research was further fueled by the observation of AI's capacity to democratize innovation, making cutting-edge technology accessible to startups and SMEs, thereby leveling the playing field with larger corporations. This democratization is not only altering the competitive landscape but also encouraging a more inclusive approach to innovation, where diverse ideas and solutions can flourish. Moreover, the ethical and societal implications of AI deployment in business practices necessitate a rigorous examination. As we delve into the advantages and challenges of AI, our analysis is imbued with a critical perspective on ethical considerations, aiming to foster a discourse that promotes responsible and sustainable AI integration.

Through these insights, our research seeks to bridge the theoretical with the practical, offering a nuanced understanding of AI's role in contemporary business. It is our belief that through a meticulous investigation of AI's capabilities and challenges, we can contribute to a more informed and ethical approach to technology adoption in the business world. Thus, our work not only charts a path for future research but also serves as a guide for entrepreneurs aiming to navigate the evolving landscape of AI-driven innovation.

1. The advantages and disadvantages of AI in business

In the discourse on the integration of Artificial Intelligence (AI) within the business landscape, we observe a complex interplay of benefits and challenges that necessitates a nuanced examination. On one hand, AI technologies herald unprecedented efficiencies and innovations, transforming operational paradigms and fostering a

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competitive edge. On the other, they introduce a spectrum of disadvantages, from ethical dilemmas to potential job displacements, that must be carefully navigated.

We recognize that the advantages of AI, such as its ability to process and analyze data at a scale and speed beyond human capacity, significantly enhance decision-making processes. This capability is exemplified in the financial sector, where institutions like JPMorgan leverage AI for real-time risk assessment, fraud detection, and personalized customer services, thereby increasing both security and client satisfaction. Similarly, the consulting giant EY employs AI-driven analytics to identify market trends and operational inefficiencies, offering tailored strategies that propel businesses ahead of their competition. These underscore AI's role in catalyzing strategic agility and innovation, driving growth in a rapidly evolving marketplace.

However, juxtaposed against these advantages are the disadvantages associated with AI's deployment. The automation of tasks, while elevating efficiency, raises concerns over job displacement and the ethical implications of diminishing human involvement in critical decision-making processes. Moreover, the reliance on AI systems introduces vulnerabilities, such as biases in decision-making algorithms and the potential for data breaches, which can undermine trust and integrity within business operations.

In our opinion, the comparison between the advantages and disadvantages of AI in business stimulation and innovation reveals a landscape marked by both opportunity and caution. While the benefits of AI in enhancing operational efficiency, fostering innovation, and creating competitive advantages are undeniable, they are accompanied by significant challenges. These include ethical considerations, the need for regulatory oversight, and the imperative to manage the societal impacts of technological displacement. The balance between leveraging AI for its immense potential and mitigating its risks requires a strategic approach that encompasses robust ethical frameworks, continuous monitoring, and adaptive policies to ensure that the deployment of AI technologies aligns with broader societal values and business ethics.

Ultimately, the juxtaposition of AI's advantages and disadvantages underscores the complexity of its integration into business practices. It demands a judicious evaluation of both its potential to drive innovation and growth and the imperative to address its challenges responsibly. As such, the discourse on AI in business is not merely about harnessing technology for economic gain but also about shaping a future that values ethical considerations, human welfare, and sustainable development equally.

2. Literature Review

In essence, our review unveils AI's multifaceted impact on business growth and innovation. Through strategic integration and thoughtful application, AI emerges not merely as a tool but as a transformative force reshaping the landscapes of industries and propelling businesses toward new horizons of success and efficiency. In our literature review, we delve into the burgeoning role of Artificial Intelligence (AI) in stimulating growth and innovation within the business sector. This exploration is anchored in a variety of perspectives offered by leading scholars and practitioners in the field.

Huang and Rust (2018) offer a nuanced view on AI's dual impact on service industries, emphasizing the technology's role in both innovation and the displacement of jobs. They propose a framework for understanding how businesses should navigate AI integration, highlighting the shift towards tasks requiring empathetic and intuitive human skills (Ming-Hui Huang & R. Rust, 2018).

Saura, Ribeiro-Soriano, and Palacios-Marqués (2021) discuss the integration of Artificial Intelligence (AI) in Customer Relationship Management (CRM) systems within the B2B sector. They emphasize how AI-driven CRMs can transform digital marketing strategies, offering a systematic review that categorizes CRM types and explores AI applications in enhancing B2B digital marketing. Their findings shed light on the future direction of AI in CRM systems, suggesting a pivotal role in strategizing and managing B2B interactions

Paschen, Kietzmann, and Kietzmann (2019) provide a comprehensive overview of AI's impact on market knowledge within B2B marketing. They detail AI's foundational components and discuss its implications for acquiring and managing customer, user, and external market knowledge. The study highlights AI's potential to significantly enhance knowledge-based marketing strategies in the B2B realm, offering avenues for future research to explore AI's evolving role

Spulbar C. (2008) elucidates the pivotal role of forecasting within the financial banking sector, a practice equally pertinent in the corporate realm. The outcomes derived from this forecasting function are instrumental in the effective allocation of resources, subsequently culminating in superior performance for the corporation. This process is methodically categorized based on the forecast's horizon, granularity, and obligatory nature into three principal segments: forecasts, plans, and programs. Such a classification is integral for fostering both development and innovation within the business environment

Chatterjee et al. (2021) analyze the effects of AI-based CRM systems on organizational performance and competitive advantage in a B2B context. Through empirical analysis, they explore how AI-CRM influences strategic relationship management activities, underscoring the critical success factors for implementing AI in B2B relationship management. The study integrates institutional theory and the resource-based view, offering insights into AI-CRM's strategic importance.

Chen et al, (2021) propose a conceptual framework for AI adoption in B2B marketing, derived from a systematic review of the literature. Identifying drivers, barriers, practices, and consequences of AI adoption, the framework serves as a foundation for understanding AI's role in B2B marketing innovation. This study illuminates the pathways through which AI can facilitate efficiency, accuracy, and relationship improvements in B2B settings, offering a novel perspective on AI-enabled marketing innovation.

Kushwaha, Kumar, and Kar (2021) explore the impact of AI-enabled chatbots on customer experience (CX) in B2B enterprises, using insights from big data analytics. Their study, informed by CX theories, examines how AI chatbots influence B2B interactions at various customer touchpoints. The findings emphasize the design and trust aspects of AI chatbots as crucial for enhancing CX in B2B contexts, suggesting a model for integrating chatbots effectively to improve customer engagement and satisfaction.

Gladilin (2023) discusses AI's contribution to enhancing leadership efficiency and optimizing business processes. The paper explores AI's capabilities for learning, reasoning, and self-correction, and their implications for decision-making and competitive advantage in the managerial sphere (L. Y. Gladilin, 2023).

Yang et al. (2021) examine AI's role in precision marketing, stressing its ability to enhance marketing efficiency, reduce costs, and personalize marketing efforts. This analysis underscores AI's transformative potential in modern marketing methodologies (Xue Yang, Haowen Li, Likun Ni, & Teng Li, 2021).

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Spulbăr and Nițoi (2012) successfully conducted a comparative analysis of diverse banking systems, highlighting the influence of national context, economic strength, and social determinants on the corporate environments. This comparison underscores the heterogeneity inherent in global business practices and frameworks. Drawing a parallel to the integration of AI in business innovation, it becomes evident that, similar to the varied banking systems, the adoption, and impact of artificial intelligence in corporate settings are significantly influenced by a company's geographical location, economic capabilities, and societal factors. Just as the effectiveness and structure of banking systems vary across different countries, so does the adoption and innovation of AI in business. Regions with robust technological infrastructure and favorable economic conditions are likely to witness more rapid and effective integration of AI, driving innovation and efficiency. Conversely, areas with limited resources may experience slower adoption, underlining the importance of context in leveraging AI for business innovation.

In the scholarly work of Chandra et al. (2023), the discourse extends to the nuanced incorporation of Artificial Intelligence (AI) within business strategies, elucidating its pivotal role in refining decision-making capabilities, augmenting operational efficiencies, and stimulating innovation. Nonetheless, their research concurrently underscores the imperative to diligently navigate the ethical terrain, safeguard data privacy, and uphold human oversight as foundational elements to responsible AI integration. This underscores our conviction that organizations must judiciously employ AI to adeptly maneuver through the intricacies of the contemporary business milieu, advocating for a balanced approach that harmonizes technological advancement with ethical stewardship.

Exposition on AI articulates its transformative essence in reimagining business innovation, delineating nine distinct pathways through which AI engenders significant alterations in business models. This encompasses the enhancement of customer segments, the fortification of customer relationships, the refinement of value propositions, and the amplification of overall business model efficacy. Lu's insights resonate with our perspective that AI acts as a formidable catalyst in the redefinition and evolution of business innovation paradigms (Lu, 2020).

Spulbar, L. F. and Mitrache, L. A. (2023) propose a conceptual framework that emphasizes the role of corporate finance in promoting sustainability through capital allocation, risk management, and strategic decision-making. This framework suggests that mobilizing finance in support of sustainability not only helps achieve long-term business goals but also contributes to wider societal and environmental benefits. The introduction of AI within corporations can increase elements of CSR (Corporate social responsibility) and ESG (Environmental, Social and Governance).

Further, the analyses by Edilia and Larasati (2023) illuminate AI's instrumental role in personalizing customer experiences and sharpening strategic decision-making processes. This, they argue, heralds a shift towards a more integrated approach to business strategy development, where AI and human cognition coalesce to engender innovative and flexible business strategies. Their arguments reinforce our belief in fostering a symbiotic relationship between AI capabilities and human insights to drive forward-thinking business strategies.

Introduce the concept of innovation analytics as a crucial AI application, supporting innovation management through the generation of insightful analytics and visualizations. Their case studies vividly illustrate AI's capacity to streamline the

innovation process, offering profound strategic insights for managing innovation. This aligns with our understanding of AI's utility in enhancing the decision-making framework for innovation managers, thereby facilitating a more informed and strategic approach to innovation (Kakatkar et al., 2018).

Lastly, Rao and Raman (2019) delve into AI's integral role in driving digital transformation, underscoring its efficiency in time-saving, cost reduction, and operational enhancement across diverse business spectrums. Anticipating the widespread adoption of AI in digital commerce by 2025, they highlight the necessity for a comprehensive operational system that seamlessly integrates AI resources. This anticipation aligns with our foresight on the critical need for organizations to adopt a holistic framework in AI integration, thereby ensuring a cohesive and efficient operational ecosystem.

3. The case study

The exploration into Danfoss, a Danish conglomerate established in 1933, provides an instructive illustration of Artificial Intelligence's (AI) integration and its consequent impact on sales strategies within the global business milieu. With its expansive operational footprint spanning over 100 countries and a robust workforce of approximately 28,000, Danfoss embarked on a transformative journey towards digitization, particularly within its sales domain, epitomizing the strategic infusion of AI technologies to augment business operations and strategic decision-making.

The advent of digitized sales tools in 2014, facilitated through the Sales Force platform, marked a seminal phase in Danfoss' digitization trajectory, although initially devoid of bespoke algorithms and dashboards specifically attuned to its operational exigencies. This foundational step towards AI integration heralded a more nuanced and effective utilization of AI technologies by 2016, with the advent of MyPipeline within the Sales Force tool, illustrating a paradigm shift towards leveraging digital tools to enhance sales efficacy (Ferreira et al., 2020; Cotter, Guan, Mahdavian, Razzaq, Schneider, 2018).

The establishment of a global Business Excellence area and the tailored development of tools to meet Danfoss' operational needs underscore the pivotal role of strategic AI deployment in optimizing sales performance. This is further accentuated by the organization-wide encouragement for regional adaptation and the establishment of regional objectives, illustrating a comprehensive and supportive framework for AI integration across the corporation (Singh et al., 2019; Antonio, 2018; Homburg et al., 2017)

Moreover, the initiation of the ONE ERP program in 2018 exemplifies Danfoss' dedication to a holistic digital transformation, aiming to unify its digital processes onto a singular platform. This endeavor reflects the strategic vision towards an all-encompassing integration of AI across operational spectrums, thereby enhancing efficiency and fostering an innovative culture.

Empirical research, employing interviews and exploratory analysis, reveals a dichotomous understanding of AI's role in sales. The benefits and challenges of AI adoption are highlighted, showcasing support in lead generation and follow-ups while acknowledging the irreplaceability of human interaction in sales contexts in the short term. This dichotomy resonates with the broader consensus within academic literature on AI's potential and limitations within sales processes, advocating for a balanced approach

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that marries technological advancements with the indispensable human element in sales interactions (Ferreira et al., 2020; Cotter, Guan, Mahdavian, Razzaq, Schneider, 2018).

The Danfoss case study not only exemplifies the strategic incorporation of artificial intelligence into business process improvement, but also illuminates the ongoing discourse between technological innovation and human-centric approaches in the evolution of sales strategies. This case provides deep insight into the multifaceted impact of AI on business innovation and operational excellence, providing a valuable framework for organizations navigating the complexities of digital transformation in the contemporary business ecosystem.

4. Future trends of AI in business

The rapid evolution of technology and digitization, it is vital for businesses to keep pace with emerging trends in Artificial Intelligence (AI). This table presents a brief analysis of some key AI trends and their implications for the business environment. From improving predictive analytics to the ethical adoption of AI and exploiting the synergy between AI and the Internet of Things (IoT), these trends highlight the main directions in which technological development is headed and how it influences enterprise strategies and operations. By understanding and integrating these trends, organizations can strengthen their position in an increasingly competitive business environment and prepare for the digital future.

Table 1: Future trends of AI in business

<i>Trend</i>	<i>Description</i>	<i>Implications</i>
Enhanced Predictive Analytics	Advancements in algorithms and computational power will improve predictive analytics, allowing businesses to understand consumer behaviors and market trends with greater accuracy.	Businesses can make more informed decisions, tailoring strategies to meet consumer needs and anticipate market movements effectively.
Autonomous Systems	The rise of AI-driven robotics and autonomous systems will expand their application across various sectors, automating operations and transforming workforce requirements.	Operational efficiency will significantly increase, but businesses will also need to manage the transition for workers affected by automation.
AI and IoT Synergy	The integration of AI with the Internet of Things (IoT) will offer real-time insights, optimizing operations from supply chain management to customer service.	Enhanced operational visibility and the ability to act on real-time data will streamline processes and improve customer experiences.
Ethical AI Adoption	Addressing AI ethics, including bias, transparency, and data privacy, will become crucial as AI's role in business expands.	Trust and accountability in AI-driven operations will be paramount for consumer trust and regulatory compliance.
AI-Powered Personalization	AI's data analysis capabilities will enable personalization at	Businesses that harness this capability will likely see

	scale, offering customized products, services, and experiences to each customer.	improved customer satisfaction and loyalty.
Sustainability through AI	AI will facilitate sustainable business practices, optimizing resource use and enhancing energy efficiency.	Businesses will not only contribute to environmental and social goals but may also find economic benefits in sustainability.
Decentralized AI	The convergence of blockchain and AI will lead to decentralized business models, ensuring data integrity and secure transactions.	This trend could redefine business operations, offering new levels of security and transparency in transactions.

Source: Developed following European Parliament Research on AI (2020)

In our view, the progression of AI algorithms and computational capabilities heralds a significant shift in how businesses will navigate consumer and market intricacies. This evolution stands as a testament to the transformative power of data, equipping enterprises with the foresight to act with precision and agility, rather than mere reaction.

The unfolding narrative of autonomous systems across various sectors is not just about operational efficiency; it reflects a deeper transition towards a landscape where efficiency and precision become the norm. However, this shift also calls for a reimagined approach to workforce development, striking a balance between automation benefits and the irreplaceable value of human insight.

The confluence of AI and the Internet of Things (IoT) is particularly intriguing to us. It promises a future where real-time insights become the backbone of operational strategies, offering a level of efficiency and customer responsiveness previously unattainable. This synergy could well redefine the essence of customer service and operational management.

From our perspective, the ethical dimensions of AI adoption cannot be overstated. As AI technologies become more embedded in business operations, the imperatives for fairness, transparency, and privacy gain prominence. We believe that businesses that navigate these ethical waters with integrity will stand at the forefront of the AI-driven future, maintaining trust and compliance in an increasingly scrutinized digital age.

The trend towards personalization at scale is, to us, a remarkable reflection of AI's potential to redefine customer engagement. This capability to tailor products, services, and experiences to individual preferences might well become the new benchmark of customer satisfaction, heralding a shift in the dynamics of customer loyalty.

We are particularly drawn to the role of AI in promoting sustainable business practices. This alignment of AI with sustainability goals not only underscores the broader benefits of environmental stewardship but also highlights the potential economic advantages inherent in sustainable practices.

The emergence of decentralized AI, through the integration of blockchain technology, presents a fascinating frontier. This development promises to offer new paradigms of security, transparency, and trust in business operations, challenging enterprises to adapt to these new models of transaction and interaction.

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These reflections encapsulate our anticipation and optimism for the role of AI in shaping the future of business innovation. As we navigate this journey, our focus remains on leveraging AI not just as a tool for economic advancement but as a catalyst for responsible, sustainable, and equitable growth within the global business ecosystem.

5. Conclusion

In concluding our scholarly exploration of the transformative impact of Artificial Intelligence (AI) on the growth and innovation within new businesses, we reflect upon the nuanced dynamics and multifaceted implications that AI technologies introduce into the contemporary business landscape. Through the lens of our comprehensive analysis, underscored by empirical evidence and theoretical insights, we have endeavored to illuminate the profound ways in which AI serves as both a catalyst for and a challenger to traditional paradigms of business development and competitive strategy.

How AI could be harnessed to stimulate growth and foster innovation within emerging enterprises. Our investigation has revealed that AI's integration into business operations not only enhances decision-making processes, operational efficiency, and customer engagement but also redefines the very essence of innovation. AI-driven tools and platforms enable businesses to navigate complex markets, anticipate consumer needs, and respond with agility and precision to the ever-evolving competitive landscape.

However, this journey is not without its challenges. We posed critical questions regarding the ethical considerations, the potential for job displacement, and the need for human oversight in the deployment of AI technologies. Our discourse has emphasized the importance of addressing these concerns through robust ethical frameworks, continuous learning, and adaptation, ensuring that AI's integration aligns with both organizational goals and societal values.

Moreover, we pondered the future trajectory of AI in business innovation, contemplating its potential to perpetuate a paradigm shift in how businesses operate and compete. Our findings suggest that the strategic leverage of AI not only holds the promise of unprecedented growth and innovation but also necessitates a reimagining of business models, processes, and leadership approaches to fully realize its benefits.

In synthesizing our insights, we advocate for a balanced and strategic approach to AI integration, one that harnesses its potential while navigating its challenges with foresight and responsibility. We underscore the necessity for ongoing research, collaboration, and dialogue among businesses, policymakers, and scholars to explore the evolving role of AI in shaping the future of business innovation.

As we look to the horizon, the interplay between AI and business innovation remains a fertile ground for exploration. Our study contributes to this burgeoning field of inquiry, offering a roadmap for future research and practice. The questions we have posed and the answers we have begun to uncover serve as a testament to the dynamic and transformative nature of AI in the modern business era. In the spirit of continuous exploration, we invite the academic and business communities to join us in furthering this discourse, charting new territories in the application and understanding of Artificial Intelligence in stimulating growth and innovation in new business ventures.

Authors' Contributions:

The authors contributed equally to this work.

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