BUSINESS MODELS AND OPPORTUNITIES OF ARTIFICIAL INTELLIGENCE
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Methods. The theoretical and methodological approaches presented in the publications of foreign authors on the problems of artificial intelligence and its use in business processes served as the information base of the research. The methods included analysis of case studies and surveys, expert interviews, as well as a systematic approach and modeling.

Results. The article examines the impact of artificial intelligence on business operations. The capabilities of artificial intelligence to solve economic problems of business structures are characterized and the challenges faced by companies that use it in the course of their business activities are demonstrated. Research results show that artificial intelligence has the potential to significantly improve business operations, in particular, increase labor productivity, save resources and improve the process of management decision-making. The introduction of artificial intelligence through the coordination of digital data has been shown to help incrementally improve business.

Novelty. The benefit of the use of artificial intelligence (AI) and machine learning (ML) technology in the innovation and dynamics of the business model of the corporate digital platform is highlighted.

Practical value. Enterprises that effectively use artificial intelligence can revolutionize exciting new digital business models and practices that empower them to transform the global economic business landscape.

Keywords: Artificial Intelligence, Business model, Opportunities, machine learning (ML) algorithms, Hologram technology.

Statement of problem. Artificial Intelligence has emerged as a transformative technology that is changing how businesses operate. Artificial intelligence refers to the use of algorithms and machine learning techniques to automate tasks traditionally performed by humans. The potential benefits of AI are significant, including increased productivity, cost savings and enhanced decision-making [1, pp. 54-62].

However, the adoption of artificial intelligence also poses several challenges, including data privacy and security, ethical considerations, and potential job displacement.

Analyses of recent papers. According to Fountaine et al., AI can support three important business solutions [2, pp. 62-73]: automated business process computerization from office business activities, Gaining intuition through data inspection, analysis, data analysis and performance metrics, and interact with customers and workforce.

Artificial Intelligence is changing the business as evidenced by Airbnb, Ola, Uber, Flipkart, e-Bay, Amazon, Mantra etc. and other enterprises incorporating its use in the tool of latest business models. This rapidly advancing technology is influencing digital platform business model innovation, although many businesses are exposed to new approaches armed with technology. Develops artificial intelligence technology as a promoter of digital business model innovation. According to Alhashmi et al., artificial intelligence and machine learning models are computational and mathematical algorithmic models that process data and take into account humanoid experience to make a decision that
an expert would make given the same
information [3, pp. 393-405].

This study is based on the issues affecting
digital business model innovation through
emerging technologies [4, pp. 26-33]. AI in
Business aims to take the latest research in
artificial intelligence and machine learning, as
well as related fields such as cryptography,
cryptocurrency and innovation, to develop
solutions that will have the greatest business
impact.

Aim of the paper. The purpose of the
article is to study the possibilities of artificial
intelligence to influence the efficiency of
business processes in the modern economy.

Materials and methods. AI opportunities in
business. One of the most important benefits of
artificial intelligence in business is increased
productivity. By automating repetitive tasks,
employees can focus on higher value-added
activities. Additionally, AI can help businesses
make more informed decisions by analyzing
large amounts of data and identifying patterns
and trends. This can lead to improved
forecasting and better allocation of resources.

Another potential benefit of AI in business
is cost savings. By automating tasks, businesses
can reduce the need for human labor, which can
lead to lower labor costs. In addition, AI
optimizes supply chains, reduces inventory costs
and improves delivery times.

Despite the potential benefits of artificial
intelligence, its adoption also creates several
challenges for businesses. One of the most
important challenges is data privacy and
security. As businesses collect and analyze more
data, there is a risk of data breaches and
cyberattacks. Finally, the potential for job
displacement is also a concern, as AI can
automate many tasks traditionally performed by
humans.

According to a survey conducted by
McKinsey & Company, the adoption of artificial
intelligence is still in its early stages in most
businesses. Only 8% of respondents said their
organizations have used AI at scale, while 23%
said their organizations are piloting or
experimenting with AI. The survey also found
that the most significant barrier to AI adoption is
a lack of understanding of the technology and its
potential applications [5, p.19].

Despite the low adoption rate of AI in
business, there are several examples of
successful AI implementations. For example,
General Electric (GE) has implemented AI in its
gas turbines manufacturing process. By using
artificial intelligence to predict potential
problems in the manufacturing process, GE was
able to reduce lead times and increase
productivity. Another example is JPMorgan
Chase, which has implemented an AI-powered
system to review legal contracts. The system
was able to review contracts in seconds, a task
that would take lawyers thousands of hours to
decorate.

Innovations in the AI business model.
According to Armour & Sako, business
intelligence and artificial intelligence are some
of the latest methods and tools for automated
systems for business innovation. These
cutting-edge tools are useful for designing, inventing
and advertising, soft promotion, marketing and
sales that are almost in sync with the business
model of the platform. Artificial intelligence and
data intelligence tools are growing during this
period [6, pp. 27-46]. The exponential growth of
artificial intelligence and cloud computing
enhances the connotations of design, innovation,
reasoning, cognition and appreciation [7, pp. 62-
73]. Therefore, the opportunity to grow AI
business models over the years is becoming
more and more through data and business
intelligence.

Nowadays, companies use data
intelligence to develop their business along with
artificial intelligence. Data intelligence (DI) is a
dynamic part of any institution's energy to
reinvent amenities and revolutionize the modern
policies they implement. By using data mining
techniques to collect shopping preferences,
buying behaviors, pricing preferences, color
preferences, style preferences, online trends, and
other individual information, businesses can
better tailor their services.

Artificial intelligence is now competent
efficient enough to reconstruct business strategy and
trade worldwide. Industrialization and
increasing growth of technological innovation,
synchronization of various communication
channels with 4G LTE, 5G technology is
strengthening the business culture.

According to Ferrario et al., since the last
few decades, artificial intelligence (AI) and
machine learning (ML) algorithms have become
widespread in the business arena and solve many of the latest business applications and create a knowledge-based portfolio for future businesses [8, pp. 523-539]. Regarding the results, AI has helped many businesses to improve production cost, productivity, technological synchronization and automatic renewal and solve the global business economy on earth.

Artificial intelligence is moving out of the R&D labs and into the business world. Millions of industries around the world and top companies are harnessing the power of artificial intelligence and applied artificial intelligence (AAI). Most business industries detect fraud using machine learning algorithms in nanoseconds to improve customer satisfaction. The remarkable growth of machine learning tools, business platforms and application-based tools creates business efficiency.

Most of the top companies like Microsoft, Facebook, Apple, Google, Amazon, Myntra, Flipkart and IBM are funding the research and development of applied intelligence and artificial intelligence for the benefit of the company and customers. Some traits and attributes can be predicted using artificial intelligence and machine learning algorithms from digital recordings of human behavior. [9, p.76] (Fig. 1).

Fig. 1. Ecosystem phase (León et al., 2020)

AI jobs with deep learning knowledge are growing faster. Deep learning is a type of machine learning that develops algorithms known as artificial neural networks that work by modeling the structure and functions of the human brain and cognition [10, p.144].

The general AI-based business model can be depicted as below (Fig. 2):

Fig. 2. AI business model

Although, the developed countries like USA, UK, European countries, and some of the Asian countries like China, Japan, Korea, India, and many more are having good infrastructure for AI-based business [11, pp. 157-169]. They have competent enough software developers to apply cutting-edge decision-making technology. The Hologram technology (HT) with artificial intelligence (AI) is now new innovative trends for business and marketing [12, p. 602]. Samsung in their white paper address the concept of hologram technology and its impact on next-generation business. Samsung white papers address the issues of 5G vs 6G technology appearance and its appropriate influence on cutting edge business and explained the following Hologram technology.

According to Samsung, the hologram technology takes the truly immersive XR, a high-precision mobile hologram and a digital replica. Pictorial perspectives are shown below [13, p.234] (Fig. 3).

Artificial intelligence is bringing phenomenal changes to the business framework and transforming the business culture of how to work in the digital age [14, pp. 108-116].

Functionality, fabrication, requirements, automated and robotic help center and other important environments will lead to even more attractive economic revolutions [15, pp. 27-78].

According to Chan et al., technology-driven business leads to an important
Fig. 3. Hologram technology (Samsung White Paper, 2020)

**Conclusions.** The adoption of artificial intelligence presents both opportunities and challenges for businesses.

This study provides an ephemeral impression of AI in modern AI development and describes how it is changing digital platform business models.

How AI and hologram technology are transforming the business model and changing business dynamics are presented through many discussions. The article presents AI technology as a digital and algorithmic catalyst for business model innovation. Also, these studies focus on the dynamics affecting digital business model innovation driven by emerging technology.

According to Daugherty & Wilson, the development of artificial intelligence technologies and big data analytics will remain to open supply systems and create experiments [17, p.278].

**References**


In International Conference on Advanced Intelligent Systems and Informatics, (pp. 393-405). Springer;
БІЗНЕС-МОДЕЛІ ТА МОЖЛИВОСТІ ШТУЧНОГО ІНТЕЛЕКТУ

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Методологія дослідження. Інформаційною базою дослідження послугували теоретико-методологічні підходи, представлені в публікаціях зарубіжних авторів з проблем штучного інтелекту та його використання в бізнес-процесах. У якості методів було аналіз тематичних досліджень та опитувань, експертні інтерв'ю, а також системний підхід та моделювання.

Результати. У статті досліджується вплив штучного інтелекту на функціонування бізнесу. Охарактеризовано можливості штучного інтелекту вирішувати економічні проблеми підприємницьких структур та продемонстровано ті виклики, перед якими постають компанії, які його застосовують під час провадження своєї господарської діяльності. Результати досліджень показують, що штучний інтелект має потенціал для значного покращення бізнес-оперacji, зокрема, підвищення продуктивності праці, економії ресурсів і покращення процесу прийняття управлінських рішень. Продемонстровано, що впровадження штучного інтелекту через координацію цифрових даних допомагає поступово покращувати бізнес.

Новизна. Виокремлено профілактичний бік використання штучного інтелекту (ШІ) та технології машинного навчання (ML) в інноваціях та динаміці бізнес-моделі корпоративної цифрової платформи.

Практична значимість. Підприємства, які ефективно використовують штучний інтелект, можуть революціонізувати нові захоплюючі цифрові бізнес-моделі та практики, які дають їм можливість змінити глобальний економічний бізнес-ландшафт.

Ключові слова: штучний інтелект (ШІ), бізнес-модель, можливості, алгоритми машинного навчання (ML), технологія голограм.

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