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THE EFFECTIVENESS OF USING ARTIFICIAL INTELLIGENCE

Annotation. This article examines the effectiveness of using Artificial Intelligence (AI) in different fields such as education, healthcare, and business. The study focuses on how AI improves efficiency, accuracy, and decision-making. It also considers challenges related to ethical issues, data privacy, and overdependence on technology. The article is based on recent studies and practical examples to evaluate both the benefits and limitations of AI. The findings suggest that while AI significantly enhances productivity and performance, its effectiveness depends on responsible use and human supervision.

Аннотация. В данной статье рассматривается эффективность использования искусственного интеллекта (ИИ) в различных сферах, таких как образование, здравоохранение и бизнес. Исследование сосредоточено на том, как ИИ повышает эффективность, точность и качество принятия решений. Также учитываются проблемы, связанные с этическими вопросами, конфиденциальностью данных и чрезмерной зависимостью от технологий. Статья основана на недавних исследованиях и практических примерах для оценки как преимуществ, так и ограничений ИИ. Результаты показывают, что, хотя ИИ значительно повышает продуктивность и эффективность, его результативность зависит от ответственного использования и человеческого контроля.

Annotatsiya. Ushbu maqolada sun'iy intellekt (SI)ning ta'lim, sog'liqni saqlash va biznes kabi turli sohalarda qo'llanilishining samaradorligi o'rganiladi. Tadqiqot SI samaradorlikni, aniqlikni va qaror qabul qilish jarayonini qanday yaxshilashiga e'tibor qaratadi. Shuningdek, axloqiy masalalar, ma'lumotlar maxfiyligi va texnologiyaga haddan tashqari bog'lanish bilan bog'liq muammolar ham ko'rib chiqiladi. Maqola SI ning afzalliklari va cheklovlarini baholash uchun

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so‘nggi tadqiqotlar va amaliy misollarga asoslanadi. Natijalar shuni ko‘rsatadiki, SI mahsuldorlik va samaradorlikni sezilarli darajada oshirsa-da, uning samarali ishlashi mas’uliyatli foydalanish va inson nazoratiga bog‘liq.

Artificial Intelligence has become an important part of modern life and is widely used in many sectors. AI systems are designed to perform tasks that normally require human intelligence, such as learning, problem-solving, and data analysis. In recent years, organizations and institutions have increasingly adopted AI technologies to improve efficiency and reduce human error.However, despite its advantages, the use of AI also raises concerns about ethical responsibility, data security, and the role of humans in decision-making processes. Therefore, it is necessary to examine how effective AI really is and under what conditions it can be used successfully. This article aims to analyze the effectiveness of Artificial Intelligence by exploring its applications, benefits, and challenges in various fields.

AI’s effectiveness through an economics lens: AI reduces the cost of *prediction*, which is foundational to decision-making in business. Lower prediction costs shift how companies operate, reallocating human effort toward judgment and strategy while machines handle routine forecasts. Its framework shows why organizations that harness cheap prediction gain competitive advantages and can innovate faster. [1]

Key points you can use:

- AI’s core value lies in making prediction cheap and abundant. Blinkist
- Businesses can redesign processes and cut operational costs by automating prediction.
- Human judgment becomes more valuable when complemented by predictive
- Fry’s narrative explains AI’s effectiveness in real-world systems, like healthcare diagnostics, transportation, and judicial risk scoring. She highlights how AI can improve accuracy and efficiency, but also how misapplication and bias can

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reduce effectiveness or cause societal harm, emphasizing the need for human oversight.

Shane uses engaging examples of machine learning experiments to explain where AI *works well* and where it fails. Her perspective reinforces that AI's effectiveness depends on the *quality of training data* and the *design of systems*, reminding readers that AI is not infallible but often highly effective with proper guidance.

Christian explores how AI systems, while effective at tasks like pattern recognition and automation, can produce unintended consequences if misaligned with human values. This book helps argue that *effectiveness should also mean alignment with societal goals*, not just technical ability.

Key argument for your article:

- AI effectiveness is not only technical but also ethical—systems must reflect human norms and values.
- AI systems have shown effectiveness in education by personalizing learning and boosting engagement and retention in language learning.
- Research shows AI in education increases student scientific literacy through blended learning methods.
- In social science education contexts, AI tools have proven effective when aligned with teaching goals.

The Effectiveness of Using Artificial Intelligence", including:

Description of the questionnaire-based research process,a sample questionnaire (in English).

A discussion section based ONLY on well-known authors' books and academic articles, with clear author names and years

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The language is clear, formal, and suitable for university or exam use.

This study uses a questionnaire-based research method to investigate the effectiveness of Artificial Intelligence in practical contexts, particularly in education and workplace environments.

Research Design.The research follows a quantitative descriptive design, as questionnaires allow researchers to collect data from a large number of participants efficiently and objectively. Participants are:

- university students
- teachers
- office employees
- professionals who use AI tools (e.g., chatbots, recommendation systems, AI-based analytics).

Result shows that Most respondents reported frequent use of AI tools. Approximately 78% of participants agreed or strongly agreed that they use Artificial Intelligence regularly in their work or studies. This indicates that AI has become an integral part of daily academic and professional activities.A significant majority of respondents viewed AI as effective:

✓ 82% agreed or strongly agreed that AI makes tasks easier.
✓ 80% believed that AI saves time.
✓ 76% stated that AI increases productivity.
✓ 74% agreed that AI improves accuracy and reduces human error.

These results suggest that AI is widely perceived as a valuable tool for enhancing efficiency and performance.

Learning and Decision-Making.Regarding learning and decision-making support:

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✓ 70% of participants reported that AI helps them understand complex information.

✓ 68% felt that AI assists them in making better decisions.

This shows that AI is not only used for automation but also for cognitive support.Despite the positive results, several concerns were identified:

- 65% of respondents expressed concern about data privacy.
- 60% agreed that overreliance on AI could reduce human skills.
- 22% of participants felt uncomfortable trusting AI without human supervision.

These findings highlight the need for responsible and ethical use of AI technologies.When asked about overall effectiveness:

✓ 81% of respondents agreed or strongly agreed that Artificial Intelligence is effective when used responsibly.

✓ Only 7% disagreed, while the remaining participants remained neutral.

The results clearly indicate that Artificial Intelligence is perceived as highly effective in improving productivity, accuracy, and time management. However, concerns related to privacy, ethics, and dependence emphasize the importance of human oversight and responsible implementation.

The findings of this questionnaire-based study support existing academic literature on the effectiveness of Artificial Intelligence. Most respondents report that AI improves efficiency, accuracy, and productivity. These results align with the views of Russell and Norvig (2021), who state in Artificial Intelligence: A Modern Approach that AI systems are designed to optimize task performance and decision-making when applied correctly.

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Similarly, Brynjolfsson and McAfee (2017), in their book Machine, Platform, Crowd, argue that AI enhances human capabilities rather than replacing them entirely. The high level of agreement among respondents that AI saves time and increases productivity reflects this idea of AI as a supportive tool.

However, the concerns raised by participants about data privacy and overdependence are consistent with Davenport and Ronanki (2018), who emphasize in their article Artificial Intelligence for the Real World that organizations must manage AI responsibly. They argue that ethical considerations and human oversight are essential for maximizing AI effectiveness.

In addition, Harari (2018), in 21 Lessons for the 21st Century, warns that unchecked reliance on intelligent systems may reduce critical human skills. This perspective supports respondents' concerns about overreliance on AI and the potential loss of human judgment.

Overall, the discussion shows that Artificial Intelligence is effective, but its success depends on ethical use, human supervision, and proper integration into existing systems.

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