IMPORTANCE OF ARTIFICIAL INTELLIGENCE (AI)

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📅 on September 25, 2023

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The Importance of Artificial Intelligence (AI) in Today's World

Artificial intelligence (https://101blockchains.com/artificial-intelligence/) has been hailed as the enemy of mankind for different reasons up until now. The 'Terminator' film franchise might have painted a gruesome picture of what happens to the world when AI takes over. However, just like any other technology, the way we use AI would define the ways in which it affects us. The importance of artificial intelligence in 2023 is visible in the birth of multiple disruptive technologies such as machine learning (https://101blockchains.com/machine-learning-explained/) and deep learning.

As a matter of fact, AI is one of the major components of the Industry 4.0 revolution. The use cases of AI (https://101blockchains.com/top-ai-use-cases/) in different industries, such as education, healthcare, manufacturing, and hospitality, prove its influence on the world. Artificial intelligence has been helping organizations in reducing costs, improve user experiences, and achieve better efficiency.

Research has pointed out that the global artificial intelligence market could reach $1.35 trillion by 2030. On top of it, the growth of AI technology could contribute around $15.7 trillion to the global economy by 2030. The value of artificial intelligence is also visible in the continuously growing AI adoption rates. According to IBM, the global

adoption rate of AI technologies in 2022 was 35%, which was 4 percentage points higher than the previous year. Let us uncover some more insights on the significance of artificial intelligence in the following post.

Fundamentals of Artificial Intelligence

The easiest way to understand the importance of artificial intelligence involves an in-depth understanding of AI fundamentals. Artificial intelligence refers to the combination of multiple technologies used for simulating human intelligence in machines. If you have come across different definitions of artificial intelligence, then you must know that AI is not one technology. On the contrary, it encompasses many other technologies, such as machine learning, neural networks, natural language processing, and deep learning.

Another important aspect in guides to the benefits of artificial intelligence points to the most notable variants of AI. You can find two types of artificial intelligence, such as narrow AI and general AI, with distinct functionalities and limitations. Narrow AI refers to the use of artificial intelligence for pre-programmed tasks such as digital assistants and weather apps.

The primary focus of narrow AI revolves around improving efficiencies rather than learning. On the other hand, general AI focuses on learning how to emulate human intelligence. General AI could address a broad range of complex tasks intended for humans. However, the vision of a 'truly intelligent' AI system is still a concept and might take some time before turning into a reality.

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Working of Artificial Intelligence

The working of artificial intelligence could also provide vital insights required for determining its importance in today's world. You can find a close relationship between the benefits of AI and the working mechanisms of AI solutions. Artificial intelligence focuses on using algorithms, statistical models, and computer programs that empower machines for data collection, information processing, pattern recognition, and decision-making. Interestingly, AI systems follow the same process iteratively for continuous learning to improve and evolve into better systems.

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Reasons for Emphasis on Artificial Intelligence in 2023

The amount of data generated by humans and machines has increased by humongous margins within the span of a few years. At the same time, the massive volumes of data are beyond the capabilities of humans to absorb the information and interpret it for making complex decisions. You can understand the need of AI in such scenarios to support the efficient use of data to create the foundations of computer learning.

Subsequently, it can help in addressing the needs of complex data-based decision-making procedures. Artificial intelligence has been one of the notable subjects for anticipation in popular culture and tech communities. It could facilitate better opportunities for business transformation alongside providing new perspectives on the relationship between people and technology.

The value of AI has garnered headlines in the present times due to various reasons other than the growing pace of data generation. For example, innovation in computing power and cloud processing has also played a vital role in encouraging AI adoption. On top of it, companies have been identifying new types of data which they had never

identified before. As a result, there could not be a better time to focus on AI than now, especially with the treasure trove of opportunities. Here are the two crucial reasons which validate the significance of artificial intelligence.

- ## Competitive Advantage and Business Agility

One of the foremost reasons among answers to "Why artificial intelligence is important?" points to the assurance of competitive advantage. At the same time, AI also provides promising advantages for improving business agility. You must note that artificial intelligence does not focus solely on improving efficiency and streamlining labor-intensive tasks.

AI applications could leverage machine learning and deep learning for real-time interpretation of data and results alongside analysis of new information from different sources, ensuring adaptability. Therefore, businesses can leverage the benefits of artificial intelligence to adapt to changing business environments and market conditions with accuracy. For example, businesses could develop the ability to provide accurate product recommendations to users. AI has the capability for self-learning and self-optimization, which would lead to better and improved long-term benefits for a business.

Businesses could recognize the value of artificial intelligence in the access to a regular stream of insights for driving innovation and adaptability. As a result, AI could serve as a promising tool for ensuring competitive advantages for businesses in the era of technological disruption.

On top of it, artificial intelligence could become one of the strategic priorities for survival of businesses in the future. As a matter of fact, around three out of four C-suite executives believe that AI adoption will become a crucial business priority in the next five years.

- ## Critical Improvements in Business Value

The discussions about use cases of AI for businesses focus on the capabilities of AI for encouraging business innovation. If you want answers for 'why artificial intelligence is important' in the existing circumstances, then you must know how it contributes to improvements in business value.

First of all, organizations have recognized the availability of resources for leveraging AI to their advantage. For example, automation with AI could help in reducing costs. On top of it, AI-based automation also introduces better scalability, consistency, and speed in business processes. Accenture reports that its clients have utilized AI to reduce time consumption by 70%.

You can also learn more about the need of AI in the capabilities of AI for driving business growth. Companies with the right AI deployment strategies have reported around 3 times the return on AI investments. Around 84% of C-Suite executives believe that AI is a crucial component for achieving their desired growth objectives.

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What Are The Benefits of Artificial Intelligence?

The emphasis on artificial intelligence in 2023 primarily depends on the abilities of AI to empower competitive advantage and offer business value. You can develop a better understanding of why artificial intelligence is important in today's times by reviewing its advantages. Here are some of the notable advantages of AI.

- ## Better Productivity and Efficiency

The description of value advantages of AI for improving competitive advantage and agility of businesses reflects on the benefits of productivity and efficiency. For example, AI-powered robots could perform time-consuming and repetitive tasks in the manufacturing industry.

As a result, workers could focus on more complicated tasks. Artificial intelligence use cases (https://101blockchains.com/blockchain-ai-use-cases/) in healthcare can also help streamline administrative tasks, thereby improving patient experiences. Medical professionals could find more time to focus on delivery of personalized care and consultation to patients.

- **Predictive Analytics**

Artificial intelligence could also help businesses in making better decisions by leveraging the power of predictive analytics. You can understand the importance of artificial intelligence depends on the capabilities of AI algorithms for analysis of large datasets. Therefore, AI has the capability to identify trends and patterns which might be invisible to humans.

Artificial intelligence could help in uncovering unique business insights that help in making informed decisions. A survey by PWC revealed that around 63% of business executives believe in the potential of AI to have a significant influence on their industry.

For example, predictive analytics can help financial service providers identify potential opportunities and risks in the stock market. As a result, the service providers could offer better insights for investors to help them with safer and more informed investment decisions.

- **Personalization of Product Recommendations**

Another notable addition to the benefits of AI draws attention to the facility of personalized product recommendations. AI could help businesses in the ecommerce, entertainment, and digital marketing industries with personalized recommendations that improve customer engagement.

For example, popular names such as Netflix and Amazon use AI algorithms to provide product recommendations to users according to their browsing and purchase history. Therefore, AI could serve as a promising tool for generating prospective leads alongside improving conversion rates.

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Is Artificial Intelligence Really Important in Today's Times?

The wide array of technological advancements in the world creates concerns regarding the feasibility of AI. Will AI maintain its identity as a disruptive technology in the future? The value of artificial intelligence is visible in the benefits and improvements it brings to businesses. Here are some of the notable reasons why AI is one of the most dominant technologies for now and in the future.

- AI has the capability to reduce human error. According to a 2018 paper by Miguel Parades, AI could provide 78% accuracy in predicting the likelihood of patient deaths in the case of sepsis.
- Artificial intelligence could replace humans in dangerous jobs, such as garbage collection. For example, AI-driven robots could reduce the risks of injuries and health concerns for humans.
- One of the significant advantages underlying the value of AI is the implementation of AI in repetitive jobs. Repetitive tasks not only hamper creativity of human workers but also create the possibilities for errors. In such cases, AI could complete repetitive tasks without any errors or complaints.
- Another crucial element in the discussions about significance of AI revolves around AI replacing jobs. On the contrary, AI automation would generate more jobs than it would replace. The World Economic Forum has reported that automation would create 58 million new jobs.

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Is Artificial Intelligence the Future?

The final highlight in a guide on the importance of artificial intelligence revolves around the future of AI. Will AI become the future of technology? The evolution of artificial intelligence shows that it has limitless applications and benefits. The International Data Corporation has reported that global expenditure on AI solutions will reach $98 billion in 2023. Therefore, it is important to understand the future direction of AI to anticipate its role in defining the future of technology itself.

The developments in AI would depend on continuous evolution of machine learning technology. For example, advancements in deep learning algorithms could help in empowering machines for more complex tasks. At the same time, the improved machine learning algorithms could also offer better accuracy in predictions.

You can find answers to 'Is AI the future?' in the prospects for increased AI usage in healthcare. Artificial intelligence has been successful in making significant improvements within the healthcare sector. In the future, AI use cases could allow better integration into healthcare systems alongside enabling accurate and efficient diagnosis. Similarly, the use cases of AI in education would also gain more momentum in the future, thereby strengthening the case for AI adoption in future.

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Conclusion

The introduction of AI in traditional business processes has provided new definitions of productivity and efficiency. You can learn about the value of artificial intelligence (https://101blockchains.com/artificial-intelligence/) through its advantages for offering business value and improving competitive advantage. At the same time, it is also important to note the continuous development of AI technologies such as natural language processing, machine learning, and deep learning.

A simple AI tool like ChatGPT (https://101blockchains.com/chatgpt-tutorial/) has proved how the world could leverage AI for everyday tasks. In the long run, AI applications would become mandatory requirements for businesses and the general public. Start learning more about AI fundamentals and explore new paths toward developing your expertise in AI now.

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Georgia Weston is one of the most prolific thinkers in the blockchain space. In the past years, she came up with many clever ideas that brought scalability, anonymity and more features to the open blockchains. She has a keen interest in topics like Blockchain, NFTs, Defis, etc., and is currently working with 101 Blockchains as a content writer and customer relationship specialist.

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