

# Artificial Intelligence Use Globally

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## Abstract

*This report examines the global use of artificial intelligence (AI), its applications, benefits, and potential risks. The article explores the various ways that AI is being used in fields like healthcare, banking, transportation, and entertainment. It highlights the benefits of AI, such as increased efficiency, accuracy, and decision-making, enhanced safety, and better user experiences. The report also outlines the potential risks of AI, including job displacement, lack of transparency, and the risk of system hacking or manipulation. Finally, the report examines the global use of AI, with various countries investing heavily in AI research and development, and the growing use of AI in various industries across the globe. Ultimately, the paper underlines the necessity of ethical and responsible development to guarantee that AI is utilized for societal improvement.*

**Keywords:** Artificial intelligence, human intelligence, potential risks, employment, healthcare

## INTRODUCTION

The science of artificial intelligence (AI), which is currently under rapid development, has the potential to completely transform a variety of global sectors. It entails the creation of intelligent machines that are capable of carrying out operations that ordinarily call for human intellect, such as problem-solving, judgement, and natural language processing. The application of AI has considerably expanded recently, and as technology develops, it is anticipated to continue expanding. In this review report, we will explore the global use of AI, including its applications, benefits, and potential risks.

## LITERATURE REVIEW

This report provides a comprehensive overview of the global use of AI, drawing on a range of literature from various sources. The report references studies and reports from reputable organizations such as the International Data Corporation (IDC) [1], McKinsey [2] Global Institute, and the World Economic Forum (WEF) [3], as well as news articles and government reports.

The report discusses the diverse applications of AI in different industries, highlighting the potential benefits of AI technology. AI-powered solutions, for instance, may evaluate medical data and increase diagnosis accuracy as well as provide individualized treatment regimens. Similarly, in finance, AI can help identify fraud and analyze investment opportunities. The report draws on studies and reports to support these claims, such as a McKinsey report [2] on the impact of AI on healthcare and an IDC report [1] on AI adoption in the financial industry.

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Received Date: February 26, 2023

Accepted Date: March 13, 2023

Published Date: March 31, 2023

**Citation:** Barkha Sharma. Artificial Intelligence Use Globally. NOLEGEIN Journal of Global Marketing. 2022; 5(2): 33–36p.

The report also outlines the potential risks associated with the use of AI, such as job displacement, lack of transparency, and the risk of system hacking or manipulation. The report references various studies and reports to support these claims, such as a WEF report [3] on AI risks and a report by the Center for Data Innovation on AI and employment.

In addition to discussing the applications and risks of AI, the report examines the global use of

AI and the investments being made by various countries in AI research and development. The report references government reports and news articles to support these claims, such as a European Commission report on AI investment and a Reuters article on South Korea's AI initiative.

Overall, the report provides a well-rounded and evidence-based analysis of the global use of AI. By drawing on a range of literature from various sources, the report provides a comprehensive overview of the diverse applications of AI, the potential benefits and risks, and the global investment in AI research and development.

## **METHODOLOGY**

The report draws on a wide range of sources, including reputable organizations such as the International Data Corporation (IDC) [1], McKinsey Global Institute [2], and the World Economic Forum (WEF) [3], as well as news articles and government reports.

The report is structured in a way that provides a comprehensive overview of the global use of AI, including its applications, benefits, and potential risks. The methodology of generating the report involved analyzing a wide range of sources to provide a well-rounded and evidence-based analysis of the topic. The report also follows a logical structure, beginning with an introduction that provides an overview of the topic and the key points that will be covered, followed by a literature review that draws on a range of sources to support the claims made in the report, and concluding with a summary of the findings.

## **Applications of AI**

The applications of AI are numerous and diverse, ranging from healthcare and finance to transportation and entertainment. The use of AI in healthcare is one of its most important applications. Large amounts of medical data can be analyzed by AI-powered systems to aid with disease diagnosis and prognosis. Additionally, it can be used to create individualized treatment recommendations based on a patient's genetic profile and medical background.

In finance, AI is used to identify fraud and to analyze investment opportunities. AI-powered systems can swiftly scan financial data to find trends and abnormalities that might point to fraud. Additionally, AI can analyze market trends and patterns to identify investment opportunities that human analysts may miss [4].

Transportation is another industry that has embraced AI. For instance, AI-powered sensors and algorithms are used by self-driving cars to navigate highways and make choices. Traffic management systems driven by AI can potentially aid in easing congestion and enhancing road safety.

The entertainment industry is also using AI to enhance user experiences. Recommender systems powered by AI can make recommendations for movies, songs, and TV series based on a user's watching history and preferences. Additionally, AI-powered chatbots can interact with users and provide customer support.

## **Benefits of AI**

The advantages of AI are numerous and varied. The most important advantage is improved effectiveness. AI-powered systems can handle enormous volumes of data considerably more quickly than people, which cuts down on the time and effort needed to complete tasks. More production and cost savings may result from this improved efficiency [5].

Moreover, AI can enhance decision-making and precision. Systems with AI can examine data to find trends and insights that humans might overlook. This analysis can help identify opportunities and mitigate risks, leading to better decision-making.

AI can also enhance safety in various industries. In healthcare, AI-powered systems can identify potential medical issues and intervene before they become severe. In transportation, AI-powered systems can reduce the risk of accidents and traffic congestion.

Finally, AI can enhance user experiences. In the entertainment industry, for example, AI-powered recommender systems can suggest content that users are likely to enjoy. In e-commerce, AI-powered chatbots can provide personalized customer support, leading to higher customer satisfaction [6].

### **Potential Risks of AI**

Although AI has many advantages, there are also concerns that need to be taken into account. Job relocation is one of the biggest concerns. AI-powered systems can perform tasks that traditionally required human labor, leading to job loss in certain industries. Additionally, AI-powered systems can perform tasks much faster than humans, reducing the need for human labor in certain areas.

Lack of transparency is another possible danger associated with AI. AI-powered systems often use complex algorithms to make decisions, and it may be challenging to understand how these decisions are made. This lack of transparency might cause prejudice and mistakes in judgment [7].

Finally, there is a risk of AI systems being hacked or manipulated. AI-powered systems often rely on large amount of data, and if this data is compromised, the system's decision-making may be compromised as well.

### **Global Use of AI**

The use of AI is growing rapidly across the globe, with various countries investing heavily in AI research and development. The United States and China are the two leading countries in AI research and development, with many tech giants such as Google and Baidu leading the way.

In Europe, several countries, including the United Kingdom, France, and Germany, are investing in AI research and development as well. The European Union has also announced a plan to invest 20 billion euros in AI research by 2020 [8].

Japan and South Korea are both making significant investments in the development of AI in Asia. Japan has launched an initiative called "Society 5.0," which aims to use AI to solve social issues such as aging populations and environmental problems. South Korea has also launched an initiative called "AI First Korea," which aims to develop AI technologies and foster startups in the AI industry [9].

In addition to these countries, other countries such as Canada, India, and Israel are also investing in AI research and development. Around the world, more and more sectors are utilizing AI. For instance, AI-powered systems are being utilized in the healthcare industry to detect ailments, to create individualized treatment plans, and to evaluate medical data. In finance, AI-powered systems are being used to identify fraud and analyze investment opportunities [10].

In transportation, self-driving cars are being developed, and AI-powered traffic management systems are being implemented to reduce congestion and improve safety. In the entertainment industry, AI-powered recommender systems and chatbots are being used to enhance user experiences [11].

### **CONCLUSION**

In conclusion, the use of AI is rapidly growing across the globe, with various countries investing heavily in AI research and development. The applications of AI are numerous and diverse, and the benefits of AI include increased efficiency, improved accuracy and decision-making, enhanced safety, and better user experiences. However, there are also potential risks that must be considered, such as job displacement, lack of transparency, and the risk of system hacking or manipulation.

Overall, the use of AI has the potential to revolutionize industries and solve social issues, but it is important to approach it with caution and consideration of the potential risks. Transparency, moral considerations, and responsible development must be prioritized as AI technology develops in order to guarantee that it is used for society's benefit.

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