

## **ARTIFICIAL INTELLIGENCE AND FUTURE**

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### **Abstract**

*Artificial intelligence, or AI, is like a super-smart tool. If we use it the right way, it can, lower the cost of getting medical treatment and also help people make amazing progress and make life simpler. But, we have to be careful because AI can also have negative effects. So, we need to use it wisely: on websites and apps for learning. If people and AI work together more in the future: we can create a smarter, safer, and more prosperous world. AI is not just something for the future anymore. It is already a big part of our lives now, and it will become even bigger in the years to come. It is up to us to find the right balance between the good and bad things about AI as we start using it. Everyone should think about whether we are ready for these changes and how we plan to use AI. The future of AI is in our hands, and what happens depends on what we do today.*

**Keywords:** Artificial Intelligence, Technology, Tools, AI

### **Introduction and Discussion:**

Artificial Intelligence (AI) is considered the biggest and most influential revolution in the field of modern technology. Over the past few decades, due to advancements in science and technology, AI has established its place in human life, and its impact is expected to become even more widespread and profound in the future. It is a branch of technology that gives computers and machines the ability to think, learn, and make independent decisions like human intelligence. It includes many subfields such as machine learning, deep learning, natural language processing, robotics, and data analysis. The voice assistants in smartphones we use today (e.g., Siri, Alexa), autonomous vehicles, or recommendations on online shopping platforms are all examples of AI.

AI originally began with the aim of mimicking human intelligence. In the 1950s, Alan Turing proposed the 'Turing Test', which gave further impetus to the concept of AI. Since

then, there has been continuous research and development in this field. Today, AI is not limited to research alone, but is making its mark in every sector. Its current contribution is clearly visible in many fields, and its impact will increase even further in the future. In this article, we will discuss in detail the current state of AI, its present contributions, future possibilities, and the challenges that come with it.

AI's current contributions are primarily seen in the healthcare sector. With the help of AI, disease diagnosis is becoming faster and more accurate. For example, AI-based software is used for the early diagnosis of serious diseases such as cancer, heart disease, or diabetes. All these things have become easier because of AI. AI also plays a role in analyzing large amounts of medical data and suggesting appropriate treatment methods for patients.

In addition, the use of robotic systems during surgery and the application of AI in drug research have revolutionized the healthcare sector. Increasing patients' lifespan and reducing treatment costs are also becoming possible due to AI.

The influence of AI is also growing in the education sector. On online education platforms, AI has made it possible to create courses tailored to students' abilities and interests, address their doubts instantly, and provide a personalized learning experience. For example, AI-based chatbots can assist students 24/7, while machine learning can be used to analyze their progress and improve study methods. This is making education more inclusive and effective, and AI is proving to be a viable alternative, especially in areas where there is a shortage of teachers.

AI plays a significant role in industry and business as well. In factories, AI is used for automated machinery, streamlining production processes, and quality control.

The use of chatbots and voice assistants for customer service is increasing, which improves the customer experience and reduces business costs. Understanding market trends, identifying customer needs, and formulating strategies accordingly has also become easier with the help of data analytics powered by AI. This is benefiting everyone, from small businesses to large corporations.

The impact of AI is felt everywhere in daily life. Features like face recognition and voice commands in smartphones, traffic navigation, and personalized recommendations during online shopping have all become easier due to AI. Smart devices used at home, such as smart speakers, thermostats, and security cameras, all operate on AI technology. This has made our lives smarter, more convenient, and safer. This influence of AI is expected to increase even further in the future, bringing about radical changes in our lifestyle.

In the future, the impact of AI will become even more profound and widespread. Automated transportation will be a prominent example of this. The development of self-

driving cars, trucks, buses, and drones will make transportation safer, faster, and more efficient. Accidents caused by human error will decrease, and both time and fuel will be saved. In addition, AI will be extensively used in logistics and supply chain management, making the transportation of goods faster and cheaper. These dreams are now becoming a reality, as many companies are successfully conducting tests of autonomous vehicles.

Significant changes are expected in the job market due to AI. Some traditional jobs, especially those involving unskilled or repetitive tasks, may decrease. For example, factory workers or data entry jobs can be easily performed by AI and robots. However, at the same time, new employment opportunities will be created in emerging fields such as AI development, data science, cybersecurity, and robotics. Learning new skills and keeping oneself updated will be crucial. Future jobs will be technology-based, which will also bring about changes in the methods of education and training.

AI can also be of great use in environmental protection. It can help find solutions to climate change, pollution, and the depletion of natural resources. With the help of AI, efficient energy use, the development of new green technologies, and pollution control will become possible. For example, AI can be used to create smart grid systems, which will reduce electricity wastage. In addition, AI can analyze satellite data to monitor deforestation and environmental changes. All these things will help make the Earth more sustainable and livable. However, along with this progress in AI, some challenges and risks are also emerging. Firstly, AI requires a large amount of data to function. This raises concerns about the privacy and security of personal information. If this data falls into the wrong hands, it can be misused on a large scale. Secondly, automation could endanger the jobs of unskilled workers, potentially leading to increased unemployment and social inequality. Thirdly, if AI is used for weapons, espionage, or terrorist activities, the consequences would be extremely serious. Furthermore, it is difficult to even imagine the magnitude of the danger if AI becomes super-intelligent and goes beyond human control.

In conclusion The future of AI is in the hands of humanity, and how it unfolds depends on our actions today.

- **Artificial Intelligence (AI) and the Future Highlights:**
  - **Definition of Artificial Intelligence:** AI is technology that gives computers and machines the ability to think, learn, and make decisions like human intelligence.
  - **Current Contributions:** Includes machine learning, deep learning, natural language processing, and robotics.

- **Healthcare:** Rapid diagnosis of diseases (e.g., cancer), medical data analysis, surgical robots.
- **Education:** Personalized learning, doubt resolution through chatbots on online platforms.
- **Industry:** Automated machines, customer service chatbots, understanding market trends through data analysis.
- **Daily Life:** Face recognition, voice assistants, online recommendations.
- **Future Possibilities:** Automated transportation, Self-driving cars, drones for safe and efficient transportation.
- **Jobs:** Reduction in traditional jobs, opportunities in new fields (AI development, data science).
- **Personal Assistants:** AI assistants for every individual, planning daily tasks.
- **Environment:** Energy saving, pollution control, solutions for climate change.

#### **Challenges and Risks:**

- Privacy: Risk of data security breaches.
- Job displacement: Automation threatens the jobs of unskilled workers.
- Ethical issues: Misuse of AI (weapons, espionage).
- Control: Fear of AI becoming uncontrollable by humans.

#### **Conclusion:**

Artificial intelligence, or AI, is changing very fast. It's like teaching computers to think and learn like people. AI is already helping us in many ways, and it will do even more in the future. Some people are worried that AI might take over jobs or become too powerful. But many experts are working hard to make sure AI is safe and helpful. They want to use AI to solve big problems like climate change and poverty. They are also thinking about how to make sure AI is fair and doesn't hurt anyone. The future of AI is full of possibilities. It could help us live longer, healthier, and happier lives. By learning about AI now, kids can be ready to help shape its future and make sure it is used for good.

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