**Introduction:**

Artificial intelligence is the ability of machines to perform certain tasks, which need the intelligence showcased by humans and animals. This definition is often ascribed to Marvin Minsky and John McCarthy from the 1950s, who were also known as the fathers of the field.

Artificial intelligence allows machines to understand and achieve specific goals. AI includes machine learning via deep learning. The former refers to machines automatically learning from existing data without being assisted by human beings. Deep learning allows the machine to absorb huge amounts of unstructured data such as text, images, and audio.

Watson wins Jeopardy!

In 2011, IBM's question-answering system Watson won the quiz show "Jeopardy!" by beating reigning champions Brad Rutter and Ken Jennings.

The idea of inanimate objects coming to life as intelligent beings has been around for a long time. The ancient Greeks had myths about robots, and Chinese and Egyptian engineers built automatons.

The beginnings of modern AI can be traced to classical philosophers' attempts to describe human thinking as a symbolic system. But the field of AI wasn't formally founded until 1956, at a conference at Dartmouth College, in Hanover, New Hampshire, where the term "artificial intelligence" was coined.

**The Future of AI: How Artificial Intelligence Will Change the World**

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What Are the Important Applications of Artificial Intelligence in Automation? Artificial Intelligence can be used [8] in various ways in Automation. From drones to self-driving cars, all are making use of intelligent automation. Here are some of the major ways in which a business will be able to benefit from a combo of AI and automation:  Preventing Fraud: It will be able to link the theft directly to the face of the perpetrator. There will be a camera that will be attached to the POS system and it will record all the types of transactions and then link them directly to the face with the details that are already present in the system. Say, for example, someone commits credit card fraud them it will become much easier to put them behind bars. Moreover, an intelligent system will also be able to prevent cyber-attacks by swiftly identifying abnormal behavior from the user. In such situations, the system automatically stops taking any requests and fires off an alert right to the administrator.  Brand Management: The work of brand management can be made a lot easier with the help of automation. Brand Marketers struggle to fully understand the consumer's opinion about their own brand. So, with the help of automation, they will be able to automate the analysis of all the present content across the internet. This can be carried out daily and will be helpful in identifying critical issues. A good example of such an automation is the Watson Analytics for Social Media. Here, the user defines a set of focus words and context and understand what online users are describing in a moment. • Customer Service: A great example of this is chat bots. They have become a lot popular and that too in a very short period. It began with Apple's Siri but have been adopted by most brands now. Chat bots are programs which can understand the user's input on a contextual basis and then respond to the queries accordingly. These are used for automating customer service, sales and marketing messages. These bots create friction during app download process in the case of popular platforms like Facebook, messenger and such. They feel human too and can reduce the burden that falls on customer help desks.  Software Testing and Development: Automation in software testing is a very rapidly evolving field. So, with a whole range of tools which are made available, it isvery possible that the work involved in is fully automated in the future. Some examples of popular testing tools are ReTest, Applitools, SauceLabs and more. With the help of these tools, developers can focus on doing core testing and leave out the worries of bug fixing in the intelligent systems. Development automation is a long way to go for sure but there are tools which can relieve developers from being engaged in menial tasks.  Human Resource Management: Recruiters struggle a lot in sorting through the CVs which get submitted with them. With the help of automation, they will be able to identify the potential candidates and manage old data. Most of the CVs are already received using some automated applicant tracking system. These solutions upload the job application materials straight to their database when the users apply for a role.  Reduces Cost: As one can [11] imagine, the cost of training a human in any routine task will recurring. You will have to deal with employee turnover, give time for gradual experience and skill development as well as incur vocational costs. On the other hand, a machine must be trained only once and then it will improve over time and that too with absolutely no cost involved in repeat training.  Improved Efficiency: People can be efficient at a job or they can surely grow to be so after some time but no matter how efficient people are, they will still make mistakes. But an Automation solution is way more foolproof and it will not indulge in many errors. With time it will also be able to learn from the outputs and so its efficiency will also improve. in recidivism. Such steps will help put the power back in the hands of the consumers.  Convergence with Other Technologies: 2019 is clearly the year when AI combined up with other technologies like that of ERP solution, analytics and such will be the secret for the success of enterprises. Convergence, by making use of data from various sensors will be able to give better data driven decisions which could improve the quality and performance.  Leadership Takes Ownership: AI rollout to just one specific team won't really gain traction as you will have to involve all the segments of an organization. But more than that, tech rollout, especially ones which can change the entire dynamics of an enterprise needs to be properly led from the top. Along with this, leadership should make sure that making AI is a priority in the enterprise and offer retraining programs. Employees should learn the skills so that they can run the AI programs efficiently in the organization. So, an investment will have to be made in both the software and employees if the real reward is to be seen.  AI for Decision-Making: As AI begins to make its way through the various business and organizations and we can see significant openness [12] to AI regarding automated decision making. For example- AI can make decisions about making a refund to a customer or accepting an applicant’s mortgage application by evaluating all the conditions. So, the load of off employees and the robot instead will take up the task. But of course, it must be made clear to consumers what is the algorithm which the AI is making use of. AI and automation are clearly the future and failing to incorporate that in your enterprise will simply mean sleeping your way through a miraculous digital transformation. Because of that happens then your company will lose the race and will surely go extinct

Source🡪[(PDF) Artificial Intelligence in Automation (researchgate.net)](https://www.researchgate.net/publication/336085049_Artificial_Intelligence_in_Automation)

# Top 10 Benefits of Artificial Intelligence (AI)

Artificial Intelligence (AI) has been around for quite some time now. From quick suggestions on search engines and auto-focus in smartphones to robot greeters at shopping centers and vehicle cruise control, AI is increasingly becoming a part of our day-to-day lives. By integrating [**AI solutions**](https://10xds.com/artificial-intelligence/) into every aspect of the business, organizations can optimize operations, gain a competitive edge and ultimately accelerate growth. The scope for innovation and development in AI is enormous and it will continue changing the world in diverse ways in the future.

Below are the **10 most remarkable benefits of Artificial Intelligence** that are helping to reshape the world that we know of today.

## Top 10 Benefits of AI for Your Business

### 1. Automation

Automation is one of the most commonly cited benefits of AI technology, and it has had significant impacts on the communications, transportation, consumer products, and service industries. [**Automation**](https://www.10xds.com/rpa-intelligent-automation/) not just leads to higher production rates and increased productivity in these sectors but also allows more efficient use of raw materials, improved product quality, reduced lead times, and superior safety. Automation can also help to free resources that can be used for more important things.

### 2. Smart Decision Making

Artificial Intelligence has always been used for making smarter business decisions. AI technology can coordinate data delivery, analyze trends, develop data consistency, provide forecasts, and quantify uncertainties to make the best decisions for the company. As long as AI is not programmed to imitate human emotions, it will remain unbiased on the matter at hand and will help to make the right decision to support business efficiency.

### 3. Enhanced Customer Experience

AI-powered solutions can help businesses to respond to customer queries and grievances quickly and address the situations efficiently. The use of [**chatbots**](https://www.10xds.com/services/chatbot/) that couple conversational AI with Natural Language Processing technology can generate highly personalized messages for customers, which helps to find the best solution for their needs. AI tools can also help to reduce the strain from the customer service staff, which will lead to better productivity.

### 4. Medical Advances

The use of Artificial Intelligence solutions in the [**healthcare sector**](https://www.10xds.com/solutions/automation-in-healthcare/) is becoming increasingly popular these days. Remote patient monitoring technology, for instance, allows healthcare providers to perform clinical diagnoses and suggest treatments quickly without requiring the patient to visit the hospital in-person. AI can also be beneficial in monitoring the progression of contagious diseases and even predict their future effects and outcomes.

### 5. Research and Data Analysis

AI and [**Machine Learning**](https://www.10xds.com/blog/8-application-areas-of-machine-learning/) technology can be used to analyze data much more efficiently. It can help to create predictive models and algorithms to process data and understand the potential outcomes of different trends and scenarios. Moreover, the advanced computing capabilities of AI can also speed up the processing and analysis of data for research and development, which could have taken too long for humans to review and understand.

### 6. Solving Complex Problems

The developments in AI technologies from basic Machine Learning to advanced Deep Learning models have made it capable to solve complex issues. From fraud detection and personalized customer interactions to weather forecasting and medical diagnosis, AI is helping businesses across industries to find the right solutions to address their challenges more adequately. Greater efficiency in solving complex problems means increased productivity and reduced expenses.

### 7. Business Continuity

Business forecasting using AI technology not only helps companies make critical decisions but also prepares them for any emergency to ensure business continuity. As risk management heavily relies on data management and analysis today, AI-powered tools can help organizations to respond to the crisis proactively. AI and Machine Learning can also create scenarios to help businesses plan for a speedy disaster recovery strategy.

### 8. Managing Repetitive Tasks

Performing recurring business tasks is not just time-consuming but it can also be monotonous and reduce the productivity of the employees over time. AI-powered [**Robotic Process Automation**](https://www.10xds.com/rpa-india/) tools can automate interactions between different business systems and make the tiresome work easy for the company. It can imitate the actions of humans within the digital systems in the HR, IT, marketing, or sales departments to execute any business process quickly without needing any manual effort.

### 9. Minimizing Errors

Another great benefit of automating regular business tasks using AI tools is that it helps to reduce the chances of manual errors. As Robotic Process Automation tools take care of the data entry and processing jobs, it can make the digital systems more efficient and less likely to run into or create any problems due to data processing mistakes. This can be especially beneficial for businesses that cannot afford to make even the slightest of errors.

### 10. Increased Business Efficiency

Artificial Intelligence can help to ensure 24-hour service availability and will deliver the same performance and consistency throughout the day. Taking care of repetitive tasks will not make AI tools get tired or bored either. This can help to improve the efficiency of the business and reduce the stress on the employees, who can be re-assigned to perform more complex business tasks that require manual intervention.

## Conclusion

There are many more benefits of Artificial Intelligence that span from space exploration to advancements in defence systems and more. The technology is evolving steadily, and it has the potential to be more intelligent than ever. While there is no surefire way of predicting the future of AI, it will certainly continue benefitting businesses and end-users in their everyday lives.

[**Talk to our expert team**](https://www.10xds.com/ask-the-expert/) to help you with the perfect AI technology adoption that suits the needs of your business to accelerate growth, optimize the team, and enhance individual performance.

Link🡪 https://10xds.com/blog/benefits-of-artificial-intelligence-ai/

# BENEFITS *&* RISKS OF ARTIFICIAL INTELLIGENCE

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