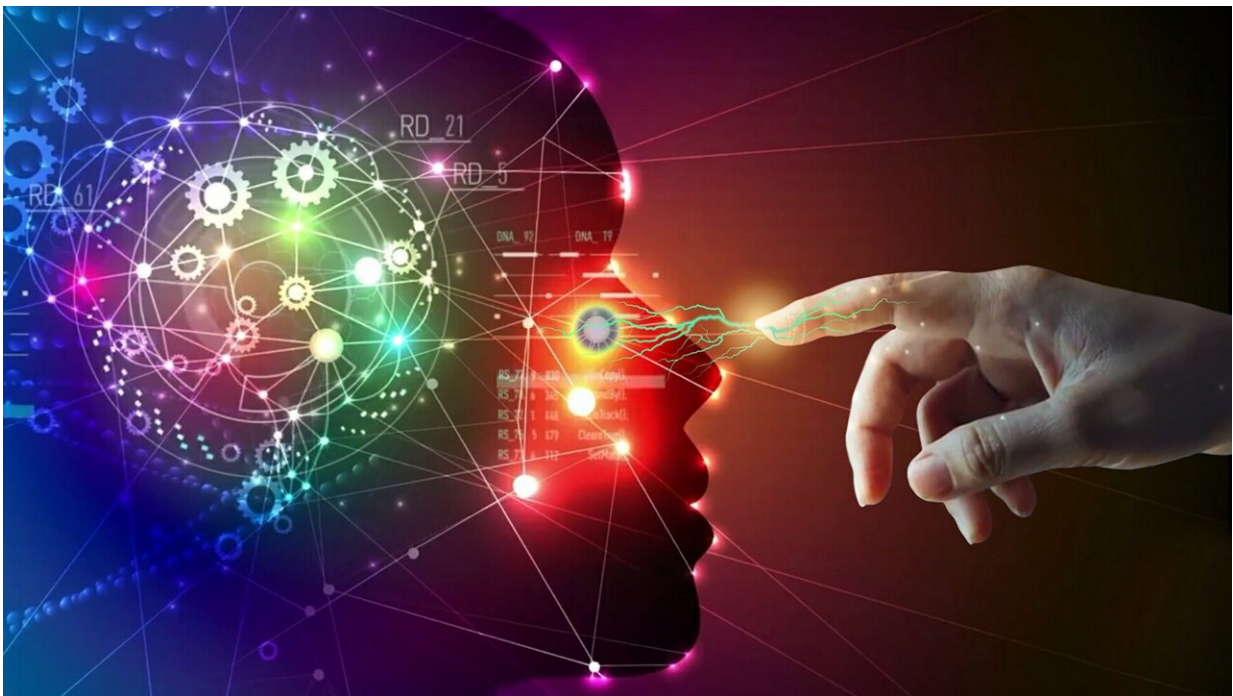


# Ten ways artificial intelligence will shape the next five years

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Over the past year, artificial intelligence has made a significant impact on the world. While most of us have noticed the advancements in text and image tools like ChatGPT and Midjourney, a deeper revolution is happening beneath the surface.

Professor Morten Goodwin and Associate Professor Per-Arne Andersen

offer 10 predictions on how artificial [intelligence](#) will change the world by 2029.

## 1. A new arms race

Over the next five years we will most likely see powerful countries such as China, the United States, and India developing increasingly advanced weapons driven by artificial intelligence.

"One country may invent highly intelligent drone swarms capable of inflicting significant destruction. In response, other countries will work harder to create even more devastating weapons," Goodwin predicts.

Andersen points out that the arms race is already underway, and that artificial intelligence plays a role on today's battlefields.

"Currently, generals make decisions in war, but I believe that artificial intelligence will be able to make far better [strategic decisions](#) than humans," he says.

So, which country do the researchers believe will gain the upper hand in the military AI race? The answer is China.

## 2. Entertainment created by AI

In just five years, artificial intelligence will not only have the capability to create movies, music, books, and video games—it will become the new standard, predicts Goodwin.

"Developments in this area are moving rapidly, and the necessary tools already exist," he says.

The researcher believes that labor unions, such as those in Hollywood, will have limited power to resist this change.

"Labor unions can make demands, but if the technology proves itself, it won't matter. Back in the 1980s, labor unions representing typographers were strong, but it became inconsequential with the arrival of computers and printers."

### **3. Education will change**

Lectures and exams will appear outdated. There are better ways to learn, and artificial intelligence will shape the way we acquire knowledge.

"I don't think exams will exist in five years. Why should we test something that artificial intelligence does better than us? Although colleges and universities will still exist, they won't be like how we think of them today," Goodwin says.

However, the researchers believe that not all aspects of the education system will be discarded.

"Primary and [secondary schools](#) are fundamental for learning to be human, fostering social skills, and acquiring foundational knowledge. They will endure, however new technologies will be incorporated to assist them," says Goodwin.

### **4. AI is involved in important decisions**

We are already asking ChatGPT for advice on writing wedding speeches and meeting summaries. So why shouldn't politicians seek the guidance of artificial intelligence in important decision-making?

"Instead of convening committees and grappling with conflicting expert opinions, artificial intelligence can help politicians make decisions about everything from bike paths to new hospitals," Goodwin says.

## **5. Revolutionized work life**

In five years, there will be fewer tasks that require [human intervention](#), according to the researchers. However, the jobs that humans engage in will become more meaningful.

"I think work is misunderstood. On one hand, we need money for food, rent, and other basic necessities. On the other hand, we need to find meaning in life. We often intertwine these aspects without them necessarily being connected," says Goodwin.

One key concern will be who benefits when human workers are replaced by artificial intelligence—will it benefit the workers themselves or the owners of capital? We don't know yet. But it is certain that there will be frustrations and protests.

"People who lose their jobs may feel as if they are losing their identity and are no longer relevant in society. I anticipate that there will be many protests against the rise of artificial intelligence," says Andersen.

## **6. 'Coding will become a thing of the past'**

Software development is among the jobs that will disappear within a few years, according to the researchers.

"Coding will become a thing of the past. Instead, we will instruct computer programs to write code on our behalf," explains Goodwin.

But humans are not completely irrelevant. It remains crucial that someone knows how to make computer programs create the desired outcomes.

"Purchasing competence will become more important. If I'm going to request a new website or an app from an algorithm, I need to understand what it is I want," says the researcher.

## **7. The body repairs itself (apparently)**

Nanorobots are [tiny robots](#) that are already being used in health research. The researchers believe that these robots will incorporate more artificial intelligence capabilities by 2029, enabling them to heal damaged muscles and tissues or target tumors in the body.

"I also believe that anti-aging with artificial intelligence will gain prominence in the next five years. This means that artificial intelligence will not only repairs damages but might also uncover why we age," says Goodwin.

Instead of relying on Botox, it is possible that a small army of robots could be injected to eliminate wrinkles.

## **8. Space exploration**

Interplanetary exploration will require thousands of years, making it impractical to assign such endeavors to humans. Artificial intelligence, however, is well suited for such journeys.

"Whether the robots employed are physical or virtual may not be crucial, but I think they will be deployed by 2029, with Elon Musk at the forefront," says Goodwin.

## 9. Breakthrough for general artificial intelligence

General artificial intelligence is a technology that is not just proficient in one area, such as ChatGPT's expertise in text or Midjourney's proficiency in images. Instead, it has the ability to master multiple tasks just as well as humans do.

"I don't think we will achieve this by 2029, but perhaps we will have some kind of Frankenstein AI that combines many different forms of artificial intelligence," says Andersen.

Goodwin shares this sentiment, as he too does not believe we will achieve true general [artificial intelligence](#) within the next five years. Nevertheless, he thinks an unexpected breakthrough will bring us closer to that goal.

## 10. AI assistants are coming

Move over Siri and "Hey Google." Get ready for the arrival of digital assistants that anticipate what you want before even you do.

"These assistants can be in our mobile phones, as we are accustomed to, or they can be physical robots. For example, [smart homes](#) could be equipped with robot assistants who have a meal ready for you the moment you feel hungry," says Andersen.

Provided by University of Agder

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