Artificial Intelligence in 20 Years Later

Nowadays, with the enhancement of computer performance and the improvement of various algorithms, artificial intelligence has entered a period of vigorous development. Information technologies such as big data, cloud computing, the Internet, and the Internet of Things, ubiquitous perception data, and computing platforms such as graphics processors are driving the rapid advancement of artificial intelligence technology represented by deep neural networks. Artificial intelligence technologies such as image classification, speech recognition, and unmanned driving have crossed the gap from "unusable" to "usable" and are ushering in the climax of explosive growth.

It is conceivable that in 20 years later, artificial intelligence technology will greatly change our daily life, greatly improve our quality of life while bringing convenience, and promote the continuous progress of human civilization and society. On the one hand, special-purpose artificial intelligence will achieve important breakthroughs: technologies such as unmanned driving and medical diagnosis have matured and can surpass human intelligence to a certain extent. Take unmanned driving as an example. After 20 years, it should be able to use various sensor information on the vehicle to intelligently detect the surrounding environment and control the driving of the vehicle. Unmanned vehicles have been put into commercial use on a large scale and can be seen everywhere on the street. Fewer accidents. On the other hand, the functions of general artificial intelligence have been greatly enhanced, and smart cities and smart homes provide solutions for management, decision-making, planning, and design. AI systems have made significant progress in information perception, machine learning, etc., and will eventually be able to achieve a certain level of abstraction and reasoning—that is, thinking and acting like humans, even more intelligent. Take smart home as an example. Now, Huawei has realized the interconnection of various devices, and users can control various home devices through their mobile phones. But in the future, artificial intelligence technology

will be more than that. The intelligent brain can complete intelligent decision-making basing on users' habits and external environment, without the need for human intervention at all times, greatly improving our sense of life and happiness.

Of course, in non-traditional fields, artificial intelligence can also play a role in helping the advancement of professional fields. In terms of energy, driverless technology can help us explore various extreme environments and find new and suitable energy sources; in terms of mathematics, artificial intelligence can prove various theorems, solve complex mathematical problems, and even propose new theories; in terms of materials , the complex mechanism and information of organic molecule synthesis can be processed by the computer, which greatly facilitates the experimental design of the experimenter, and then realizes the automation of the experiment...

In general, whether in daily life or in the professional field, artificial intelligence in 20 years later has begun to take shape. However, imagination is still only imagination, and how to turn imagination into reality still needs to rely on the efforts of our generation - time is waiting, but the future is promising. Only by laying a solid professional foundation and learning relevant knowledge can we help us better build artificial intelligence technology and ultimately achieve a better tomorrow.