

1/ There are different interpretations of artificial intelligence in different contexts. Please elaborate on the artificial intelligence in your eyes.

Artificial intelligence is known as a branch of computer science related to the automation of intelligent behaviors, must be based on solid operating principles and must be applicable in life, help people. Artificial intelligence is designed to be able to process data at a higher level, more scale and systematic, scientific and especially much faster than humans.

2/ Artificial intelligences, machine learning, deep learning are three concepts often mentioned together. What is the relationship between them? What are the similarities and the differences between three terms?

That is, machine learning is a subfield of artificial intelligence. Deep learning is a subfield of machine learning make up the backbone of deep learning algorithms. In fact, it is the number of node layers, or depth, of neural networks that distinguishes a single neural network from a deep learning algorithm, which must have more than three.

The different:

+ Deep learning: techniques to implement machine learning

The subset of machine learning composed of alogarithms that permit software to train itself to perform tasks, like speech and image recognition, by exposing multilayered neural networks to vast amounts of data

+ Machine learning: Approach to conquering artificial intelligence

A subset of Ai that includes abstruse statistical techniques that enble machines to improve at tasks wwith experience. The category includes deep learning

+ Artificial Intelligence: human intelligence simulated by machine

Any technique that enables computers to mimic human intelligence, using logic, if the rules, decision trees, and machine learning (include deep learning)

3/ After reading the artificial intelligence application scenarios in this chapter, please describe in detail a field of AI application and its scenarios in real life base on your own life experience

+ Healthcare: analyze, diagnose, give instructions in the process of examination, diagnosis, treatment and prognosis.

Example: Analysis of exams, CT scans, data entry, and other tasks can be performed faster and more accurately by the robot.

+ In life: mobile photography, self-driving cars, smart home.

+ Education: chat GPT, chat AI, it can help for teaching

4/ Which chip is for deep neural networks and Ascend AI processors. Please brief these four major modules.

+ A15 Bionic of Apple:

Performance: 64-bit 6-core CPU, using ARMv8 with 2 high-performance cores as Avalanche and 4 energy-saving cores as Blizzard. The 5 - 6 core GPU delivers up to 80% increase in graphics performance compared to the A14 Bionic chip.

Image processing speed: Ultra-fast image response rates with adaptive refresh rates from 10Hz to 120Hz.

Save energy: Manufactured on the latest 5nm+ process with 4 Blizzard energy-saving cores

+ Snapdragon 800 of Qualcomm:

Appeared on many famous phone lines such as Samsung S4 LTE, Samsung Note 3, Nexus 5, Xperia Z1 ... using 28nm process, with 4 cores 32 bit, providing stronger performance, more battery saving, Adreno 330 graphics processor, smoother game. Start supporting 4K video recording, high-speed AC standard Wifi connection, 4G cat 4, USB 3.0 with Qualcomm Quick Charge 2.0 fast charging capability.

+ AMD Ryzen 7:

AMD Ryzen 7 5800X CPU using the latest Zen 3 architecture and manufacturing based on 7 nm production line. The chip possesses impressive specifications of up to 8 cores, 16 threads and up to 32 MB of cache help you freely use graphics software, render videos, as well as fight most games that require strong configuration.

+ Chip CPU Intel Core i9-10900K:

This is a processor chip with 10 cores, 20 threads with a clock speed of 3.7GHz. According to the manufacturer's introduction: Intel Core i9-10900K is the most powerful chip today with the ability to play games and make extremely powerful graphics.

_Cache: L3/30MB

– Processing speed: 3.7 GHZ – 5.3 GHZ

– Consumption voltage: 241 W

– Core, CPU thread: 16, 24

5/Based on your current knowledge and understanding, please elaborate on the development trends of artificial intelligence in the future in your view.

In the future, AI will be present in most of our activities from the smallest things to the biggest and very helpful to mankind. Artificial intelligence is shaping the future of humanity across nearly every industry. AI will be able to adapt itself to any situation, self-assess and make decisions by itself. In general, in the future AI will do a lot of things that humans cannot predict.