**1.** Artificial intelligence is a field of engineering that produces intelligent machines, especially computer systems. It integrates intelligent human features into machines such as language processing, information gathering, machine vision, speech recognition. It can perform tasks by learning and solving complex problems.

**2.** Machine Learning is a subset of artificial intelligence that helps build [AI-driven applications.](https://www.simplilearn.com/tutorials/artificial-intelligence-tutorial/artificial-intelligence-applications) Deep Learning is a subset of machine learning that uses vast volumes of data and complex algorithms to train a model.

The different:

+ Deep learning: techniques to implement machine learning

The subset of machine learning composed of alogarithms that permit sofware 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 enbles computers to mimic human intelligence, using logic, if the rules, decision trees, and machine learning (include deep learning).

**3.**

+ In the medical field: 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.

**4.** Convolutional Neural Network (CNN) - CNN is a class of deep neural networks most commonly used for image analysis.

Recurrent Neural Network (RNN) - RNN uses sequential information to build a model. It often works better for models that have to memorize past data.

Generative Adversarial Network (GAN) - GAN are algorithmic architectures that use two neural networks to create new, synthetic instances of data that pass for real data. A GAN trained on photographs can generate new photographs that look at least superficially authentic to human observers.

Deep Belief Network (DBN) - DBN is a generative graphical model that is composed of multiple layers of latent variables called hidden units. Each layer is interconnected, but the units are not.

***+ A15 Bionic of Apple:***

Performance: 64-bit 6-core CPU, using ARMv8 with 2 high-performance cores as Avalance and 4 energy-saving cores as Blizzara. 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 of Qualcomm, Gen 1,2 :***

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.** In my opinion, artificial intelligence is growing strongly in all fields, it can help us from small problems to big everyday problems. However, it also has a downside. Most of the companies often use artificial intelligence instead of small jobs such as cleaning the floor, sweeping the trash, chemical worker .... leading to many unemployed citizens. Besides, occupations that can be cross out such as law and courts.