**IT Trends**

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Five major technologies that are currently charging people’s lives have been identified sit down. They are:

* the Internet of things,
* artificial intelligence,
* blocchain,
* 3D printing
* and big Data

The Internet of things is network of physical objects equipped with electronics, special software, sensors and the ability to access the internet, which allow for the collection and exchange of information.

Such physical objects include: cell phone, coffee maker, washing machine, car, refrigerator, jet aircraft and many other things. All of these things can become members of the internet of things is they can access the Internet.

According to information technology research company Gartner, by 2020 the number of devices corrected to the Internet will exceed 26 billion (some estimate the number of devices to be more than-100 billion). That is, Internet of things is a giant network of interconnected. This interaction between people and people, people and things, things and things.

There are many examples of the Internet of things. Let’s say you are on your way to a meeting, at this time car will look at your calendar and choose the best way to get to your destination. If there is a traffic jam, on some road your car will send a message to the waiting party that you will be late. Your alarm clock wakes you up at 6:00 am and immediately sends information to the coffee maker to start brewing. Such examples can be given endlessly

The best example of the widespread use of the Internet of things is smart cities Such cities are interconnected and there is no Cen necessary waste and population. In this context, the internet of things allows us to understand and improve how we live and work. The graphic below in English shows how the smart city works.

The internet of things will not only open the way too many opportunities, but will also bring a number of risks. Clearly, security will be a major issue in the mass migration to the internet of things. How sure is it that someone will hock into your freezer and take over all your devices? In view of this, in the era of the Internet of things, many companies dealing with the issue of Internet security will appear.

However, it is true that the current development of information technology leads to the Internet of things, and as for the danger, it is any new development it will be encountered before the stage and the fear of it is equivalent to refusing develop.

Very large database (English Big Data,Very large Database,VLDB) is database that takes up large amount of space on a physical storage,devise.

This term describes the maximum possible size of a database, determined by the latest advances in physical data storage technologies.

The quantitative definition of «very large volume» has changed over time, currently it is measured in petabytes.

A very large database and data storage place requires a lot of attention to logical and systematic technical design, which alones to easily work with large volumes of data, which are performed daily within the framework of individual projects, is possible only if special versions of the operating environment and data are offered to the DBMS through special mechanics.

State bodies in our Country are making efforts to produce Big Data and (open data) concept. For example, during the study of the forget audience of eGov, the Big Data laboratory works. It conducts research on the annals is the profile of users of the eGov portal. Also, health care in the country from 2005 to the present, 14 terabytes of data have been accumulated in the information system of the industry.

In conclusion, with the help of Big data, we can analyze the economic growth, proving the population with a quality source of information, the speed and accuracy of the data, the value of the collected information.

Therefore, the market for copying restoring and archiving data will be in great demand in the future. New opportunities are being created that were difficult to imagine before.

In the future, the roe of Big Data, which is the basis of many modern analytical technologies will be especially important.

**Blockchain** – is a technology for storing data and information about the processing of this data, with a unique working principle.

Blockchain mean a chain of block in Kazakh. Imagine the armor of a hero in front of your eyes. There, each iron ring is directly connected to the basks. In the blockchain technology, each block is connected to many other block, but unlike a chainsaw, each block interacts with all blocks at once.

Let is look at the main components of this technology: a private blockchain networks and a consensus mechanism.

Blockchain is just that way of strutting data.

Blockchain is a distributed database that is a distributed system. In other words, the data store is not associated with a shared processor. A blockchain – is a list of ordered records called blocks.

Imagine a digital medical records. Here each record is like a block with a unique creation time. The system is designed in such a way that it is impossible to replace this data with a past data: all records of diagnosis and treatment must be kept in chronological order. Only the doctor and the patient can see the information. Each of them has its own key. A third party, for example an administrator or an invited specialist, can only retrieve information from the record if the doctor or campaigner tells him the key. Thus, the medical database is a – **Blockchain.**

**Artificial intelligence** is a software system that simulates a human game on a computer. That is, it means to implement the ability of human logical thinking in different machines to make them able to think independently.

One of the department of artificial intelligence – informatics is considered to be intellectual modeling of traditional forms of human life in which hardware and software tasks are set and solver.

The work of artificial intelligence is divided into two directions:

the first direction examines the product of human intellectual activity masters its construction and create these products with modern technology;

the second direction is intellectual.

Considers information about the neurophysiological and psychological mechanism of activity, more precisely the conscious activity of a person.

Conclusion:

The 21st century is the age of technologies. Mobile devices, Internet networks have become a common daily habit and hardware technology has become an important part of human life. A digital environment has been formed. Developed countries are increasingly increasing the possibilities of using technologies for human benefit. Internet networks provide a lot of opportunities for human development in different direction. A person can engage in entrepreneurship scientific research for a person to realize all hiss potential. In secondary education, priority is given to independent education of students while in the system of professional development private training and corporate training are widespread. The task now is to developed a Smart learning environment that will allow the acquired knowledge to server people.

Organization of a person is good education successful study intellectual development at a high level further develop our sovereign country.

The President says that deep-knowledge is the pillar of our independence, and our mind should not deceive our freedom N.A.I would like to conclude with the words of Nazarbayev.

**List of literature**

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