

The fourth industrial revolution and our actions

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Our world is changing at an incredible speed. Touch of change around the world. New technologies are constantly knocking at our doorstep. Goodbye is the old meditation idea. People of the world need to learn the skills to use the new technology. The pace of technological change is much faster than acquiring the skills to use the technology. As a result, a new challenge has appeared in front of the people of the world to keep pace with the technological change. We have to accept the development and spread of new technology whether we want it or not, otherwise we will fall behind in this world. Digital technology has been associated with excellence in today's world. We can easily imagine that in the coming decades, the fourth industrial revolution driven by technology will change the old structure in all areas of the world. By the year 2030, many of the current jobs will no longer exist. The type of creation is still unknown to us. Robotics ie Artificial Intelligence, Block Chain Technology, Internet of Things, Decentralized Consensus, Gene Engineering and other technologies will build the world in a new way. In addition, fifth generation wireless technology, 3D printing and emerging technologies in fully autonomous vehicles will be considered breakthrough eras.

The fourth industrial revolution is now a reality, there is no denying it. If we fail to meet the challenges of the fourth industrial revolution, the new industrial revolution will leave us behind. There are advantages for us in meeting the challenges of the fourth industrial revolution. Firstly, the implementation of Digital Bangladesh over the past thirteen years has strengthened the foundation of Digital Bangladesh. It has a direct impact on all sectors across the country. It has affected the daily life of people. People are used to one word. Our economy is booming, per capita income is increasing rapidly. In the current financial year, the per capita income has been provisionally calculated at 2 thousand 591 US dollars. The per capita income of more or less 03 crore people of Bangladesh is about 05 thousand US dollars.

The export revenue in the ICT sector is 1.3 billion USD annually. 750 million USD in annual revenue in the outsourcing sector. Bangladesh ranks second in the world in terms of online workforce. The number of financing is about six and a half lakh. Direct employment in Hi-Tech Park is about 21 thousand. Schools have more than 58 thousand multimedia class rooms. Day by day it is increasing. The government is providing multimedia class rooms on a priority basis in all educational institutions of the country. We need to push our education sector to face the fourth industrial revolution. Hundred percent of people in the country have now come under electricity facilities. Power generation is being increased as per the plan. The government plans to transform itself into a wealthy country with a per capita income of US\$ 15,000 by 2041 as well as empowering people equally. In order to implement this plan, all the concerned parties have been explained their responsibilities. Everyone is trying to implement this plan. If this plan is implemented, the GDP of Bangladesh will be 6 trillion US dollars in 2041. Bangladesh ranks 93rd in terms of size and 8th in terms of population. It is not very easy to plan the development of such a populous country and implement it. However, our honorable Prime Minister Sheikh Hasina undertook this difficult task 13 years ago. She had announced the roadmap for the development of the life and livelihood of the people of the country through the implementation of Digital Bangladesh. Since then, digital education has continuously expanded. Many developed countries of the world have not even thought about the launch of 'Five G'. However, 'Five G' has already been launched in Bangladesh. A third submarine cable is coming in 2023. The government is bringing broadband internet connectivity to people's doorsteps. Broadband Internet provides high speed data through which technology is expanding. Future world will be data dependent. In this continuation, the demand for broadband internet will continue to increase day by day. The optical fiber network is being delivered to the masses to build the eco system to meet the demand for data and the consumer is easily accepting it. The government has already launched the 'Ekdeshe Ekrate' package to make broadband internet affordable and people-friendly. Artificial Intelligence is also known as Machine Intelligence. The best example of computer science is artificial intelligence. The four main functions of artificial intelligence are speech recognition, learning new things, planning and problem solving. Artificial intelligence is being used in smartphones to take beautiful selfies, provide customized services keeping in mind the customer's habits and needs, and provide various services by listening to the voice. etc.

Many institutions in Bangladesh are already running their operations with the help of artificial intelligence. Last year on Victory Day, City Bank jointly started micro loan disbursement program with bKash. The help of artificial intelligence has been taken in providing this loan. That is, if a bKash account holder applies for a loan using the bKash app, City Bank will grant the loan automatically with the help of

artificial intelligence. No human help is needed here. The loan is available as soon as the application is made. No collateral or documents are required. Bank has no loan processing fee. Loans are collected on monthly basis from bKash account balance. Interest rates are also affordable. Customers are getting this facility 365 days 24 hours. It is a groundbreaking activity in the banking sector. Also, the use of robots in garment factories has started long ago. Robotic technology is being used to assemble refrigerator compressors at the Walton factory. ICDDR, has launched a state-of-the-art artificial intelligence-based method of diagnosing diabetic retinopathy with tele-ophthalmology technology called 'CARA'.

Block chain technology is the most secure technology in the current world for data transfer and data storage. In this method, any work can be done by collecting different blocks in the form of a chain. It is a distributable database in which all the transaction information between the participating parties is in the form of documents. is saved. Each transaction can be verified again by the majority of the system. Once an information is in the system it remains permanently, it cannot be deleted. It works perfectly. Currently block chain is very popular and effective in network security and data transfer. It is being used in all activities, including financial transactions, to reduce corruption in the country and protect people's information. Bangladesh is already working on this technology. But it is in the early stages. It is playing a revolutionary role in the health sector. All medical records of people are stored through block chain and this information will help the doctors in providing medical services. This technical service is limited in private big hospitals in our country. In various countries of the world, including the United States and Malaysia, the help of artificial intelligence is taken as an aid in determining probation, bail, sentence and crime trends.

The fourth industrial revolution will have the greatest impact on the job market. As a result of automation, industrial factories will become machine dependent. On the one hand, unskilled and low-skilled workers in the traditional labor market will lose their jobs, on the other hand, a lot of employment will be created for the skilled labor force in the new generation labor market. In this knowledge-based industrial revolution, skilled human resources will be more valuable than natural resources. As a result of the fourth industrial revolution, instead of off-shoring, the process of re-sharing will progress. That is, all the production processes that were previously transferred to developing countries will be taken back to developed countries.

The fourth industrial revolution will move mankind forward by 100 years. Today's generation is more educated and aware than before. Our children and teenagers are driven towards technology from birth. Actually there is no scope to go beyond our technical know-how. The fourth industrial revolution with its endless possibilities is knocking at the doorstep of the people of the world. It is hoped that Bangladesh will be able to face this challenge positively and introduce itself to the world as a developed country.

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