

**Integration of Artificial Intelligence in the Advancement of
Science and Engineering
July 2024**

**Importance and future of AI in the Advancement of science and Engineering
in the lives of school dropout students and street children.**

Dr. Shashikant Singh Boudh (Author)

Editor-Good Morning Nagina (National Newspaper)

President- Ucchar Madhyamik Shiksha Mandal

Delhi Nagina (Bijnor) Uttar Pradesh-246762

Email-Sksingh999s@gmail.com

On one hand, schemes like Right to Education are being brought across the country to educate children, on the other hand, a large number of children are also leaving school. In this he is talking about taking special steps for the education of deprived children. To find out the exact number of out-of-school children in the country and to send them to school, Uttar Pradesh Education Board has resolved to improve education with AI. Less number of students are being sent to schools. Among the total children not going to school, the number of boys is more while the percentage of girls is less. Not only this, the number of children suffering from some kind of disability among those not going to school is very high. Is included in the school. Therefore, it is necessary to find out the children who do not go to school across the country. The intellectuals stressed on adopting similar methods and including some more recommendations in the right education. The number of children studying in lower classes within the schools should be found out. And if the study is conducted again after 3-4 years, then it will be known that how many children have dropped out of school. While promoting the School Chale campaign or conducting any survey, apart from the children living in children's homes, children roaming at railway stations and traffic signals will also be included. They should also be included and their services should also be taken. It was demanded that these should be included in the Act as soon as possible. The Board has made a written proposal to include all these things in the Education Act. Which will be proposed in the Assembly/Lok Sabha.

Importance of education:-

(Ai) Science education is a very important subject for everyone to achieve success in life and do something different. It helps us to face challenges in difficult times of life. The knowledge gained during the entire learning process makes all of us and every individual self-reliant in our life. It opens up various avenues for opportunities to achieve better prospects in life which will lead to career growth with the use of AI. Promote the importance of education in rural areas Many awareness

Integration of Artificial Intelligence in the Advancement of Science and Engineering July 2024

campaigns are being run by the government to give. It is present in all individuals in the society. Brings the feeling of equality and also promotes the development and growth of the country. Better education is very important for everyone to move ahead in life and achieve success. (Ai) not only develops self-confidence in us but also helps in building our personality. School education plays a great role in everyone's life. The entire education system is divided into three parts like primary education, secondary education and higher secondary education. All levels have their own special importance and place. We all want to see our children going towards success, which is possible only through good and proper education. The importance of education has increased a lot in today's society. There are many uses of education but there is a need to give it a new direction (Ai). Education should be of such a nature that a person can become familiar with his environment. Education is a very essential tool for a bright future for all of us. We can achieve anything good by using this means of education in our life. High level of education helps people in gaining social and family respect and creating a distinct identity. The time of education is a very important time for everyone socially and personally. This is why we (AI) scientists. Education holds so much importance in our lives. (Ai) Scientific education in any big and famous university. There is a very low fee for entry. Other small education boards are also providing education to promote skills in a particular field. Education is equally important for both men and women, because a healthy and educated society is created by both together. Apart from being an essential tool for a bright future, it also plays a very important role in the development and progress of the country. In this way, appropriate education creates a bright future for both. It is only the educated leaders who build a nation and lead it towards the path of success and progress. Education works to make people better and gentler to the extent possible.

(Ai) Modern education system:-

Good education serves many purposes in life such as: promoting personal growth, enhancing social status, improving social health, economic progress, success of the nation, setting goals in life, making us aware about social issues and Providing solutions to solve environmental problems and other social issues etc. Due to the use of distance education system, nowadays the education system has become very simple and easy. The modern education system has been able to completely remove the issue of illiteracy and equality among different castes, religions and tribes. That he should be literate and trained, that is why education has become very important in our lives today. That is why you have to remember that education is very important for us, because of this we get respect in our

Integration of Artificial Intelligence in the Advancement of Science and Engineering July 2024

society so that we can live with our heads held high in the society. Education serves to develop the mind of the people at a higher level and helps in removing all the discrimination among the people in the society. It helps us to become good studies and develops intelligence to understand every aspect of life. It also helps us in understanding all the human rights, social rights, duties and responsibilities towards the country.

With the main role of education (Ai) :-

Education plays a major role in the modern technological world. Nowadays, there are many ways to increase the level of education. The entire system of education has now been changed. Now after 12th class, we can continue studies along with job through distance education programs. Through distance education we can easily take admission in any big and famous university at very low fees. Other smaller institutes are also providing education to promote skills in particular field. (Ai) Education can also be obtained through distance education system. Education is the essential tool for a bright future for all of us. We can achieve anything good in life by using this tool of education. Higher levels of education help people gain social and family respect and a distinct identity. The time of education is a very important time for everyone socially and personally. It takes a person to a different level in life and develops a sense of goodness. Education provides the ability to solve any major family, social and even national and international problems. None of us can ignore the importance of education in every aspect of life. It turns the mind positive and removes all mental and negative thoughts.

(Ai) What is education?

It changes people's thinking by bringing positive thoughts and removing negative thoughts. We study etc. in our childhood itself. Education makes us more civilized and better educated. It helps us to achieve better position in society and envisioned position in job. It enables us to become a good doctor, engineer, pilot, teacher etc., whatever we want to be in life. Regular and proper education takes us towards success by making us aim in life. The education system of earlier times was much more difficult than today. Not all castes could get education as per their wish. Due to high fees, it was very difficult to get admission in a prestigious college. But now, it has become very easy and simple to move ahead by getting education through distance education (. (Ai) Education is the essential tool for a bright future for all of us.

(Ai) It is equally necessary for both men and women.

Integration of Artificial Intelligence in the Advancement of Science and Engineering July 2024

(Ai) Good education serves many purposes in life.

(Ai) Education plays a role in improving the minds of people at a higher level.

(Ai) The time of education is a very important time for everyone socially and personally.

(Ai) Regular and proper education leads us to success by making us aim in life.

(Ai) Higher education is very important for everyone to get good and technical jobs.

(Ai) Education is very important for us, because of this we get respect in our society.

(Ai) Education holds so much importance in our life.

Importance of education in rural areas:-

Home is the first place to get education and parents are the first teachers in everyone's life. In our childhood, we receive our first lessons of education from our home especially from our mother. Our parents tell us the importance of education in life. When we turn 3 or 4 years old, we are sent to school for proper, regular and less bounded studies, where we become well educated individuals in our life through the efforts of our parents and teacher. They are really our well wishers, who helped us in taking our life towards success. Nowadays, many government schemes are being run to promote the education system so that it is possible for everyone to reach suitable education. Many advertisements are shown on TV and newspapers to show the importance and benefits of education to the people in rural areas because people in backward rural areas do not want to study due to poverty and incomplete information towards education. Which is accomplished in the present time through AI education.

Education for the poor and middle class:-

Earlier, the education system was very expensive and difficult, poor people were not able to pursue higher education after 12th class. There was a lot of difference and inequality among people in the society. The upper caste people received good education and the lower caste people were not allowed to get education in school or college. However, now changes have been made on a large scale in the entire process and subject of education. In this regard, many rules and regulations have been implemented by the Government of India to make the education system accessible and less expensive for all. Most importantly, Ai distance education system has made higher education affordable and accessible, so that the backward areas, poor and middle class people can get equal education and

Integration of Artificial Intelligence in the Advancement of Science and Engineering July 2024

success in the future. The system has made higher education affordable and accessible, so that backward areas, the poor and middle class people should have equal opportunities to achieve education and success in the future. Well educated people are the strong pillars of a country and help in taking it forward in the future. Like this. Ai education is the tool which helps in life. Makes all impossible situations possible in society and nation.

(Ai) Education will prove to be an essential tool for a brighter future:-

AI education is the essential tool for a bright future for all of us. We can use AI education in life. You can achieve anything by using this tool. A high level of education helps people in social and helps in creating family respect and a separate identity. Ai Education time is a very important time for everyone socially and personally. It takes a person to a different level in life and develops a sense of goodness. AI education provides the ability to solve any major family, social and even national and international problems. None of us can ignore the importance of education in every aspect of life. It turns the mind positive and removes all mental and negative thoughts. AI education works to develop the minds of people on a large scale and along with this it also helps in removing all the discrimination among the people in the society. It helps us to become good studies and develops intelligence to understand every aspect of life. It helps us in understanding all the human rights, social rights, duties and responsibilities towards the country. Reasons for gender inequality:- Although in the cities at present no difference is considered between boys and girls, but even today there are villages where educating girls is considered useless. The mentality of poor families is still the same as the old one. Although the age for marriage of girls in the country has been fixed at 18 years, even today in poor rural families, girls are married at the age of 14-15. In such a situation, no girl is able to reach even the 5th class quickly. Poor nutrition:- The head of a poor family either works as a laborer or does farming on a small piece of land to support his family. In such a situation, some days the stove in his house is not even lit. Children of such families somehow spend many days eating dry rotis. For the development of the brain, proper nutritional elements are required which we get only from food. Due to children not getting nutritious food, their brain development stops, after which no matter how well we teach them, no matter how many facilities are given to them, they will not be able to understand anything.

(Ai) Less expenditure on education:-

Integration of Artificial Intelligence in the Advancement of Science and Engineering July 2024

Children's education is not complete merely by preparing children and sending them to school every day. It is also very important for children to get exposure to new books and technologies. A high level education requires considerable expenditure at present. Apart from studies, money was also spent on honing other talents. Is required. It is very important for children to acquire knowledge of AI, computers etc. since childhood, which is taken under the expenditure of education AI. At present, very little money is spent on AI education. And

Time is also saved.

Family responsibilities in childhood itself:-

In poor families, children start realizing family responsibilities as soon as they turn 13-14 years old. Since childhood, they have been living with limited resources. With increasing age, like everyone else, their needs also increase and to fulfill them, they do not see any other solution except earning their own money. The eldest father in the house also has the responsibility of the entire family. As children grow up, the expenses also increase and it is very difficult for just one member of the family to bear this expense. As a result, children start doing small jobs to earn their own money and leave their studies midway.

Due to economic situation:-

At present, the cost of any higher level education is a huge sum for a poor family. A child from a poor family who is very good in studies, after studying till class 10-12, his studies stop there due to the financial condition of the house. Some children who are more promising try to maintain their studies by taking small tuitions but they are not able to pay the fees to get higher level education. No matter how bright a child from a poor family may be, in today's time it proves to be very difficult for him to study as a doctor or engineer.

Decrease in interest towards studies but rise of better curiosity with the use of (Ai):-

Seeing the unbalanced condition of the house since childhood, the mentality of the children who grow up in poor families also gets formed in the same way. As they grow up, they also lose interest in studies. Such children have always seen people around them struggling just for two meals a day. In poor society, due to never getting any environment for studies, children after some time start considering studies as useless and finally leave studies and start looking for ways of earning. Poverty is like a disease which is making a person hollow from within. This poverty Providing higher

Integration of Artificial Intelligence in the Advancement of Science and Engineering July 2024

education to children in India is an even more challenging task. Although now many such government facilities are being provided to the poor, so that their children do not face any problem in getting education, but the sad thing is that nowadays the mentality of the poor has become very narrow. They themselves decide that the poor cannot get higher education. Such families must take inspiration from the lives of Shastriji and AmbedkarSaheb. Poverty has been a serious and long-term issue in India. It is an extreme situation when a person feels lack of essential items needed to continue life like shelter, adequate food, clothing, medicines, etc. Some of the common causes of poverty are susceptible, fatal and epidemic diseases, natural disasters, low agricultural production, lack of employment, casteism in the country, illiteracy, gender inequality, environmental problems, changing trends of the economy in the country, lack of proper education, untouchability, limited Or inadequate access to their rights, political violence, organized crime, corruption, lack of motivation, laziness, outdated social beliefs etc. Poverty in India can be reduced by following effective solutions, however individual efforts of all citizens are required.

Objectives of Education:-

Education is a means of increasing knowledge. It is a medium of cultural life. Is the creator of character. It is the door to livelihood. Along with the art of living life making full use of one's abilities, it is also a guide to personal development. The criterion of human development is knowledge. Knowledge trains the intellect and gives rise to ideas in the mind. This thoughtfulness is the means to success in all areas of life. Be it physical or mental, illness or disease, problems or crisis, all are solved with the key of knowledge.

Education and the need for education to acquire knowledge:-

Acquiring knowledge is an important objective of education. By acquiring knowledge through modern civilization education Has developed. Neither knowledge is complete education in itself, nor is it the ultimate objective of education, it is only a part of education and a means. The aim of internal education should be to acquire cultural knowledge so that humans can become civilized, polite, moderate, develop literature, music and art etc. By making life valuable we can raise the standard of living. Also, cultural heritage can be passed on to the coming generations.

Education for character:-

Integration of Artificial Intelligence in the Advancement of Science and Engineering July 2024

Character means all those things which are done in the form of conduct, behavior etc. According to Plutarch, character is merely a long-term habit. Valmiki says, it is only by the character of a man that it is known whether he is noble or non-noble, brave or arrogant, pure or impure. There are two types of character, good and bad. Good character is the beauty of the society. Education bears the responsibility of its creation. In the words of Gandhiji, purity of character is the foundation of solid education. Therefore Dr. D.N. Khokhla says, the aim of education should be emotional and moral development. A good engineer or doctor is useless if he does not have moral qualities. Because, a person with poor character only carries the burden of knowledge. Real education develops the virtues and perfection inherent in human beings.

With Education for Business (Ai):-

Meaning of business. Means of subsistence. This means that education should have so much power that it should be arghakari, that is, it can guarantee the livelihood of an educated person. In the words of Gandhiji, true education should be an insurance against unemployment. Teaching the Art of Living:- The four objectives of education written above are one-sided for acquiring knowledge, culture, character and profession, and are not complete in themselves. Life requires education in the art of living; education should provide the ability and capability to learn the complex process of life and make life happy in times of sorrow, suffering and adversity. Spencer supports a broad objective in education i.e. holistic development in all aspects of life. He rejects bookishness and supports activities that help in running a family, maintaining social and economic relationships and developing emotional development. After success in these activities, the person becomes ready for the next life. Co-education:- Co-education means that boys and girls of all ages sit together in the same room and study together. Get education. There should be no need to have separate classes for boys and girls. This type of education has not been practiced in India since ancient times. Till a few years ago, women were not interested in getting this type of education. But just a century ago, emphasis was being laid on giving education to women. In view of this, in today's materialistic era, women have also recognized the importance of co-education. She has understood this and hence she does not have much hesitation in getting co-education. Co-education improves the psychological development of boys and girls. There is a big difference between Indian social values and western values. Those whose culture is respected in western countries. In India they are considered wrong. For example, in India, parents used to choose the bride and groom for their son and daughter, whereas in western countries, teenagers choose their own life. That is why co-education was considered mandatory there.

Integration of Artificial Intelligence in the Advancement of Science and Engineering July 2024

From there, these people can get acquainted with each other and find Swadhi for themselves. There is no such compulsion in India. But nowadays western customs have entered India also. Due to the influence of western education, co-education started being used in India also. Love marriages started happening here too. Co-educational schools started opening in Indian society also. Today equality between men and women is prevalent, so why should co-education be opposed? Education not only increases a person's self-esteem but also helps in building a good personality. Only education helps in understanding the ups and downs in life and solving them. Any kind of problem can be solved easily through education.

Importance of sports in education and its support and quality:-

Sports are very important in human life. There are many problems in our life and we suffer from stress. And sports relieve us from problems, stress and worries. Sports have special importance in education. It is an essential part of education. Sports lead to overall development of a human being. Our body becomes healthy, fit and healthy. Sports bring freshness to the mind. There are arrangements for many types of sports in schools and colleges. Just by playing games while studying, students become stress free. The first school of any person is his family. And mother has been called the first teacher. Education is that weapon. With the help of which one can face even the biggest difficulties. It is education through which we know the difference between right and wrong. Many essays have been written on education. Will be written further also. Its importance can be gauged from this, it will be okay if you don't get one meal, but you should definitely get education. It is the right of every living being to get education. AI in Play with Modern Education System The Importance of AI has also increased rapidly Education is an important tool, which is very useful in everyone's life. Education is what makes us the smartest creatures on earth. It empowers human beings and prepares them to face the challenges of life efficiently. The word education is derived from the Sanskrit word 'Shiksha' Ghatu, which means to learn or teach. That is, the process by which study and teaching takes place is called education.

With various definitions of education (Ai):-

According to Geeta, "Sa Vidya Vimukte". That is, education or knowledge is that which frees us from bondages and expand on every aspect of ours. According to Tagore, "Our education has become based on self-interest, driven by the narrow objective of passing exams, a means of getting a job as soon as possible, which is being imparted in a difficult and foreign language. This has caused us to

Integration of Artificial Intelligence in the Advancement of Science and Engineering July 2024

lose knowledge of rules, definitions, facts and It neither gives us time nor inspires us to stop and absorb what we have learned. According to Mahatma Gandhi, “True education is that which develops and motivates the spiritual, intellectual and physical aspects of children. In this way we can say in essence that according to him education should Meaning all-round development: According to Aristotle, “Education develops the powers of man, especially the mental powers so that he becomes capable of contemplating the ultimate truth, Shiva and the beautiful.” To make education accessible, there is a need to spread educational awareness in the country. But it is incomplete without analyzing the importance of education.

Right to education:-

We can fulfill our dreams only through education. Can give new condition and direction to life. Without education we cannot achieve anything. Nowadays, everyone needs to earn a living, for which it is very important for you to be educated. Today’s generation will not fare well without education Can. Education creates employment opportunities. Today only that country comes in the category of most powerful, which has the power of knowledge. Gone are the days when battles were fought with swords and guns, now big battles are won only by using brains without bloodshed. Education Well, everyone has the right to get education. But now a law has been made on this. This means that now it is mandatory for everyone to teach their children. This law was brought in 2009 by the name of ‘Free and Compulsory Children’s Education Act’. Right to education is one of the fundamental rights mentioned in the Constitution of our country. Is. The 46th Constitutional Amendment, 2002 provides for free and compulsory education to all children up to fourteen years of age as a fundamental right. Right to Education (RTI Act) has been added to 21A of the Constitution. It is effective from April 1, 2010. The following things are stated in the RTI Act. • According to this legislation, now there is a right to provide free and compulsory education to children in any government school. Provisions • Right to Education Act to every primary school (primary school + middle school) in India These norms have to be followed to maintain the minimum standards set by the Govt. There is a rule to give admission to the children who due to some reason are not able to go to school on time, in the appropriate class. It also appoints trained teachers. It provides for the development of the curriculum in accordance with the values mentioned in the Constitution. And is committed to holistic development of the child, enhancing the knowledge, potential and talent of the child and freeing the child from fear, trauma and anxiety through child friendly system and child centered knowledge system. The process by which study and teaching takes place is called education.

Integration of Artificial Intelligence in the Advancement of Science and Engineering July 2024

- Everyone has the right to get education.
- It is an important tool, which is very useful in everyone's life.
- This makes man the smartest creature on earth.

Employment opportunities are created only through education.

- Only through education can we fulfill our dreams.
- Without education we cannot achieve anything.
- Education plays an important role in the society. It also helped in the spread of literature. Temples and community centers played the role of schools. Later, the Gurukul system of education came into existence.

Modernization (Ai) Impact on Education:-

Education plays an important role in the society. Education itself expands our knowledge, transfers it to students and promotes new knowledge. Modernization is a process of socio-cultural change. It is a series of changes involving values, norms, institutions and structures. According to the sociological approach, education is not according to the individual needs of the individual, rather it arises from the needs of that society. In which the person is a member. In a stable society, the main function of the educational system is to transmit cultural heritage to new generations. But in a changing society, its form keeps changing from generation to generation. And in such a society, the educational system should not only be taken as a cultural heritage but should also help in preparing the youth to adjust to the changes. And this lays the foundation for future possibilities. Modern educational institutions prepare skilled people, whose scientific and technical knowledge leads to the industrial development of the country. Other values like individualism and universalistic ethics etc. can also be developed through education. Thus education can be an important weapon of modernization. The importance of education can be realized from the fact that all modern societies insist on universalization of education and in ancient days, education was concentrated for a particular group. But with the modernization of education, now everyone has the facility to get education irrespective of their caste, religion, culture and economic background. The effect of modernization can be seen in schools also. Modern day schools are completely technical. Are formally equipped with sound tools that help children develop their expertise in a more clear way. Effective facilities provide barrier-free means

Integration of Artificial Intelligence in the Advancement of Science and Engineering July 2024

for persons with disabilities, free from health and environmental hazards, to access shared spaces. The real meaning of education is “learning”, which awakens human conscience, the purpose of all education is truth. To reveal and provide every kind of help in practical life, according to Mahatma Gandhi, true education is not in reading books but in the organization of character, the aim of education should be to make man capable of achieving his highest manhood, that to be given such education It should awaken the feeling of ‘VasudhaivaKutumbakam’ in his mind. In ancient India, this education was given in the Gurukuls and Ashrams of Maharishis located in dense forests, away from the noise and strife of the city. The students remained under the guidance of the Guru till the age of twenty-five years. Used to study properly while serving his feet. Here his all-round development took place, Takshashila and Nalanda universities were the major education centers of the country at that time, then due to foreign invasions the ancient education system of the country was also affected and the complete Indian education system was replaced by the medieval Urdu-Persian mixed education system. Over time, the political influence of the West rapidly declined in India, the whole of India came under the British rulers, the English made arrangements for imparting education in their own way to make their rule permanent. The education system started by Macaulay in 1828 was aimed at producing as many clerks as possible. This policy remained in force throughout the British rule, its remnants are still more or less alive in the Indian education system, due to which even today our education is being proven faulty and impractical. While the education system propounded by Macaulay helped the British in achieving their self-interests, it also helped the Indians in achieving their own ends. They took away the feeling of self-reliance and character building and made them struggle only for subsistence,

Key facts of India’s new education policy: Illumination of (Ai) in the National Education

Policy:-

India’s New Education Policy 2020 has been implemented by making some improvements in the National Education Policy 1986. The Sustainable Development Goals issued by the United Nations have been kept at the center in the new National Education Policy. To achieve this goal, a target of 2030 has been set in the policy. Major change in the pattern of education: This policy talks about implementing a new system of 5+3+3+4 in place of the currently implemented 10+2 school education. In this, education will be provided in Anganwadi for 3 years in the first 5 years and classes 1 and 2 in the remaining 2 years. In the next three years, education will be provided up to class 5, in the next three years up to class 8 and in the remaining 4 years up to class 12. Emphasis on care and

Integration of Artificial Intelligence in the Advancement of Science and Engineering July 2024

education of children: This is the focus of primary education. For this A national framework will be created for preparing the curriculum. Ashramshalas will be started to implement this in many tribal areas. Teacher-Student Ratio: In the new education system, it will be ensured that the teacher-student ratio in every school is less than 30:1 and in areas with a majority of socio-economically deprived children, the PTR of the school is less than 25:1. Digital Infrastructure for Knowledge Sharing (DIKSHA) provides basic literacy and A national repository of quality resources based on numeracy will be made available. Equivalent Multidisciplinary Education and Research Universities (MERUs) Equivalent Multidisciplinary Education and Research Universities (MERUs) will also be developed across the country on the lines of IITs and IMs. Also, an Indian Institute of Translation and Interpretation (IIT I) will be established for the development of various languages. Various goals of the policy: To achieve 100% youth and adult literacy by 2030, Quality education for all learners by 2040 and The top priority of the education system will be to achieve universal basic literacy and numeracy in primary schools by 2025. There are many benefits of the current education system, it will not only improve the level of education in the entire country. But after twelve years of education, the student will be able to take up some profession or the other and pursue university education. Crowding will be reduced, but this success can be achieved only when it is accompanied by other reforms like improvement in the examination system, qualified trained teachers, adequate amount of money so that equipment, supporting materials etc. can be made available and most importantly, determination and nation. The spirit of pioneering, and confidence in AI education