

{ Artificial Intelligence and the future of Human employment }

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Artificial intelligence is no longer a scientific concept. It has emerged as an enormous force influencing every sector ranging from medicine, education, to construction. Efficiency, automation, and low error percentage are the trade marks of artificial intelligence. While artificial intelligence has brought innovation and advancement in every field, it has also resulted in loss of job and has raised ethical and privacy concerns. It is a double edge sword. It has brought ease and comfort in human life at the cost of their creativity. With the rapid progress in artificial intelligence, most nation have integrated it with their educational system. However it must be remembered that artificial intelligence is just a tool. It's benefits and harms depends upon it's users. As AI is rapidly becoming part of our lives, it should be regulated by a proper and consistent framework.

Uptill the beginning of 21st Century, AI was just a scientific concept. It was mostly

presented in science fiction movies. The basic concept of artificial intelligence was machines which possess emotions and intelligence like human beings. Artificial intelligence was defined as "Machines capable of performing human task, possessing human like intelligence and creativity and depicting human emotions". With the discovery of neural links and black box technology, basic AI models were created. However these models were not on-par with human intelligence. It was not until 2023 that the first proper AI model was launched by open AI. It was named as chatgpt. Since then, AI has brought a new era in science and technology.

With rapid advancement and million of dollars invested, artificial intelligence started to influence every sector of life. In medical sector, it helps in quicker diagnosis of disease. It also provides valuable counselling for both mental and physical health issues. More importantly, it is cheaper and efficient. AI models are extensively

used for self diagnosis of diseases. You can get yourself diagnosed while sitting in your home. Now-a-days Artificial intelligence robots are also able to perform minor surgeries.

Artificial intelligence has also revolutionized construction sector. AI is now able to generate floor plans, sections, elevation, as well as mechanical and electrical drawings. It is also able to render these drawings. Artificial intelligence integrated with building information model (BIM) is able to provide every single detail before on-ground construction. Moreover small livable houses are being constructed using 3d printers thus reducing labour cost extensively.

AI is most extensively used in the corporate sector. It helps in writing emails, targeting clients, increasing sales, and even organizing meetings. It has also reduced the work load of employees. It has increased productivity and profit in corporate sector. It also allows the corporate sector to

reach a larger audience. Despite all this AI has emerged as a threat for low skill employees in corporate sector.

Artificial intelligence has also accomplished many feats in the field of research. It has successfully predicted the gene pattern of extinct animals. It has made the process of gene editing easier. With the help of artificial intelligence the genes of dire wolf have been revived. It has made most of the calculations and alterations easier. AI models are also able to predict the behaviour of various molecules and atom in different chemical reactions. It has brought a new era in theoretical physics and mathematics.

Being extensively used in almost every sector, artificial intelligence has brought with it numerous benefits. The most important benefit of AI is its efficiency. It is able to perform tasks much faster than an average human. It can also organize large amount of data within a few seconds. In the

field of medicine, it is efficiently able to detect cancer cells. Similarly, in construction sector it is efficiently able to acquire optimum moisture content of soil as well as concrete. It is also able to predict crack patterns in concrete.

The second most important benefit of AI is its automation. AI is able to perform most of the tasks itself without any assistance. For example, in marketing sector it is able to respond to the queries regarding a product automatically. In corporate sector it can automatically respond to most of the emails. The automation feature of AI is most prominent in automobile industry. Latest models of vehicles are integrated with AI safety tools. They not only help in self driving, but automatically stops the car in-case of any obstruction on road. The latest features of lane assist and focus mode are all possible due to artificial intelligence.

The third and most important benefit of artificial

intelligence is its accuracy. It always provides accurate results. Machines do not get tired and they do not omit errors like human beings. AI is able to write lengthy codes and solve hectic calculations without omitting any mistake. Latest models of AI can provide accuracy upto 95%.

Uptill now we have seen how AI has evolved and is being incorporated into every sector. However, it has also brought positive and negative aspects in future employment. The first positive aspect of AI in future employment is that it opened new door to productivity. Employees are able to perform more tasks in less time. Most of the time which was wasted in writing emails, organizing meetings, and solving hectic calculations are now just one click away.

The second benefit of AI in human employment is that it provided new industrial opportunities. With the advancement in AI specialization in new fields

Such as internet of things and Artificial intelligence engineering is being pursued. New industries are being set up for the production of silicon chips utilized in the design of modern computers incorporated with AI. It has also revolutionized media industry with the help of AI generated videos. It has also new door of opportunity and employment for individuals with specialized computer hardware and software skill.

Artificial intelligence is not a divine creation. It is a human invention and it also comes with negative impacts on in future employment. The most immediate negative aspect of AI is loss of job for low skilled individuals. In the 20th century industrial revolution led to the replacement of countless low skilled individuals by machines. Similarly, in this era AI has emerged as a threat for typewriters, graphic designers and even construction labour. AI can type lengthy paragraphs more efficiently than typewriters. It can design more creative logos than most expert graphic designers.

In the words of Gretchen, a US based graphic designer "With rapid progress in AI, it has emerged as a threat for most of the graphic designers. AI provides efficient and creative designs for free and the clients are more satisfied with it. If this progress continues, I am afraid the profession of graphic designing is going to be obsolete." Just like Gretchen thousands of other individuals are also afraid that AI is going to replace them.

Another negative aspect of AI is that it kills creativity. Most of the freelance writers are losing customers due to AI. In the words of Owen, a product review writer based in Canada "I am losing clients because of AI. My clients are able to generate minute and creative product review for free within a single click while it takes me 4 to 5 days to write a product review. AI is much more creative than I am." Most of the seasoned writers and editors also believe that AI has emerged as a strong

Competitor for them. Furthermore, AI has mostly harmed the creativity of students. Instead of using their brains, they just refer the matter to AI.

AI has also resulted in greater economic disparities. It has resulted in the accumulation of wealth by a few tech giants. Most tech companies have more assets than the GDP of certain nations. These companies freely exploit their employees with no fear of accountability. Often times they have fired their seasoned employees because AI was able to perform their duties. Along with economic disparities, AI has also created professional disparities as tech qualified people are given more employment than other professions.

Another negative aspect of AI is that, it has raised a number of ethical and privacy concerns. Overall people are becoming too dependent on AI. Sam Altman, the CEO of OpenAI in an interview said people often seek personal advice

from AI without concern whether it provides correct or wrong information. The rise of AI has also led to an increase in cyber attacks and security breach of many notable firms including Meta and Apple. Most employees as well as users are concerned with a rise in cyberattacks as their personal data is often leaked.

Despite its harms and benefits, AI has become a reality and we have to move forward with it. For this reason two immediate steps are required. The first step is to integrate AI with education. Proper use of AI should be taught and awareness should be spread about its harms and benefits. Already, some work has been done in integrating AI with education as new courses such as internet of things and Artificial intelligence are being offered by many colleges. Students should be taught how to handle AI. Their skills should be developed on-par with AI, so that they can easily secured employment in competitive environment.

The Second step is to

design AI regulatory framework. It should clearly describe the limitations of AI. It should also have clauses of benefit for low income individuals. Finally, it should also target privacy and ethical concerns. Most nations are working on introducing artificial intelligence framework; Pakistan has also launched AI act 2025 in its national AI policy, aiming to develop AI infrastructure and training more than one million individuals in AI skills by 2027 so that they can become better future employees. Other countries including UK, Australia, US, Germany, China etc are all developing their AI acts.

Moving forward, there are 2 prevalent approaches to AI. The first one is optimistic approach. The proponents of this approach believes that in future there shall be AI-human collaboration. AI will assist in most of the task. The basic direction for performing tasks shall be given by humans. AI shall be controlled by humans. It shall result in the creation of new jobs and shall open new doors

to employment.

The second prevalent approach is pessimistic approach. Proponents of this approach believe that AI shall result in mass unemployment and economic inequality. Famous American author Dan Brown in his book "Origin" proposed that AI is becoming a fourth major specie in the world. The first three being plants, animals, and human beings. He showed concern for the time when AI shall be taking independent decisions without any human direction. The proponents of this approach further believe that AI is becoming more dominant in every field and this dominance is causing harm to human employment.

To sum it all our era has witnessed massive development in technology. This development came with certain harms and benefits. However it must be remembered that AI is just a tool. It's benefits and harm totally depend upon it's user. In the right hands, it has numerous benefits. National level policies are being formulated for ethical use of AI. Regarding

Future employment, although AI has threatened the jobs of low skill employees, it has also opened new door to technology and employment. With human - AI collaboration, the future is of employment is portraying an optimistic image.