

Activity 5.2: Let us collate our thoughts about how Artificial Intelligence (inclusion, bias, privacy) is affecting our daily lives in all spheres.

Pros

- AI machine doesn't get tired even after working 24x7.
- AI machine can take rational decisions irrespective of gender, religion, and so on.
- AI can be used in any of the applications like Health Care, Security, Education, Entertainment, Transport, and so on.
- AI machine gives accurate and fast results based on the input given to the machine.
- AI machine doesn't need food, water, tea break and can work tirelessly resulting in error-free tasks.
- AI machines are best suited to work repeated tasks effectively and efficiently.
- AI machines can assist in our daily routine tasks.

Cons

- AI technology is costly.
- AI can lead to increase in unemployment.
- AI machine lacks in creativity.
- AI machine lacks emotions and hence won't understand someone's problem.
- AI machine is created by a human so there is a possibility of negative impact based on gender bias and prejudice on AI machine.
- Privacy is another issue with AI machines.
- Legal malpractices.

Balloon Debate

Balloon Debate refers to a debate or sharing of ideas and facts between presenters who debate to win audience approval. The visualization is that of all speakers to be flying in a hot-air balloon which is about to sink. The decision about who should be thrown out so that everyone doesn't die has to be taken. The attempt is to encourage all participants to argue why they shouldn't be thrown out of the balloon.



Figure 5.9: Balloon Debate

Activity 5.3: This is a 2-pair activity in a group of 4. You should pen down your observations with regards to AI and its impact to your selected theme; Health Care and argue whether AI plays an important role in the said field. Support with valid arguments and examples.

Theme: Health care

How is AI making an impact in the field of the theme selected?

Artificial Intelligence in Healthcare has an impact on human lives in number of ways. In the previous section of this chapter, we learned about various approaches in AI. It can be data-based AI or knowledge-based AI. The machine is made intelligent so that it can extract information using algorithms that will function on the data fed into it. It acts like a human brain by just taking a lot of data as input and based on the input, it can process to give the output. The accuracy of output is always dependent on the authenticity of the input collected by that machine. If a lot of data is entered and that is authentic, then there are more chances of getting an accurate result.

Mention some ethical concerns in the field of the selected theme. Give examples to support your statements.

Artificial Intelligence in Health Care is a debatable due to ethical and clinical concerns regarding the patient.

AI machines in healthcare are helpful in number of ways:

- AI can perform any routine and repetitive tasks very easily.
- There is no time bound for AI machines.
- AI machines are more productive.
- AI machines can predict the user's choice and can assist to perform actions as per the requirement.
- AI machines can think logically as per the data input fed into it.
- AI machines can take decisions without prejudice so as not to be taking wrong decisions based on gender, religion, or any other.
- AI can help in maintaining clinical records electronically.

Some of the examples how AI can help in healthcare are as follows:

- AI machine can be used to read the CT scans faster than humans. It can help physicians evaluate patients more efficiently and effectively.
- AI machine can serve better in rural communities.
- AI machine can be used in mining and digging fuels where the human life can be in danger due to hostile.
- AI machines learn from past reports such as X-Ray, CTScan, and MRI to assist doctors regarding diagnosing the problem and then also help in the treatment procedure.
- The IoT-enabled bands help in detecting the problems at early stages.

Mention a few pros and cons of AI inclusion in the field of selected theme.

There are always pros and cons of everything and so it is for Artificial Intelligence too. Some of the intelligent machines might have more advantages than the disadvantages; still there is a fear to use that solution.

Everyone thinks that AI will replace humans. People have the perception that if we are going to use AI machines in the healthcare sector, then it is going to replace the surgeons, physicians, nurses, etc. whereas it is not true. The AI machine is trained to do the specific job and assist in the task given to improve the services in the healthcare. For example, if the AI machine is trained to diagnose the disease after reading the CTScan. Then, the intelligent machine is helping the doctor regarding the detection of the disease and guiding for the treatment options.

Pros

- Able to perform any task endlessly, that is, there is no time limit and the machine doesn't get tired so easily.
- Able to solve problems easily and effectively.
- Able to handle bulk of information in one go.
- Able to convert information into knowledge base to take decisions on it.
- Will help in assisting doctors to take better decision.
- Patients will be reminded on phones about their appointment schedules, and so on.
- Every information regarding the patient will be available on one click.
- Able to do all administrative tasks effectively and efficiently.

Cons

- AI-enabled machines are going to increase the budget costs.
- There are challenges of trust and legal issues.
- Less human interaction and emotionless
- People will be replaced by machine and will further increase unemployment.
- Legal malpractices in case a surgery conducted by a robot go wrong or incorrect inference from an expert system has been implied.

This is an open-ended activity and might have different interpretations. The aforesaid set of observations is one of the interpretations for the said activity by the author. You are expected to attempt the next activity as per your research and understanding.

and for Thought

It is time to put on our thinking caps and reflect on some thoughts post our readings and observations done so far.

There is huge replacement of humans with AI-enabled robots in many work spheres, such as physical labor and data analysis. Is it ethical to incorporate AI in such areas to replace human workforce?

AI-enabled machines and robots will soon be an important part of all workforce. Do you think they will be entitled to sharing incomes paid for such jobs? If yes, how will it be shared?

Many world problems can be solved with AI inclusion such as food production and preventing hunger and access to clean water and sanitation. Do you think that the benefits will be accessible to all members of the society? If yes, share your views on how to make them available for all.

Do you think that AI inclusion can be a threat or an advantage keeping in mind how fast technology is progressing and become indispensable parts of our daily lives?