

# Is Humankind Ready For Widening The Horizons of Artificial Intelligence”

## Outline:

### 1) Introduction

Thesis Statement: Due to various concerns attached with the use of Artificial Intelligence it is evident that humankind is not ready for widening the horizons of Artificial Intelligence. An effective strategy is required to deal with these multifaceted challenges and to commonly use AI around the globe.

2) An overview of Artificial Intelligence and its widening horizons.

3) Humankind is not ready for widening horizons of Artificial Intelligence (Thesis)

4) Ethical concerns and biases are hindering humankind to widen horizons of Artificial Intelligence

b) Limited information about decision making process <sup>of Artificial Intelligence</sup> making conclusion dubious

c) Security risks attached with the use of Artificial Intelligence makes it complex to broaden its horizons.

d) Skill Gap and lack of Education to use Artificial Intelligence shows unpreparedness of mankind to widen its horizons

e) Absence of Universal Regulatory framework to use Artificial Intelligence is another hindrance to expand its use.

4) Humankind has potential and is ready to widen the horizons of Artificial Intelligence (Anti Thesis)

a) Technological Advancements at rapid pace shows mankind is ready for widening horizons of Artificial Intelligence

b) Understanding to use Artificial Intelligence is growing across the world, paving the way to leverage potential of AI in diverse fields

c) Growing global co-operation to exchange

the ideas of Artificial Intelligence is also increasing, showing that humankind is ready to expand its horizons.

- d) Successful integration of Artificial Intelligence in various fields reflect preparedness of humankind to widen the <sup>its</sup> use
- e) Consciousness and efforts of humankind to make regulatory framework shows that humankind is ready to widen horizons of Artificial Intelligence
- 5) Humankind is not in a position for widening horizons of Artificial Intelligence. (Synthesis)
- a) Facial recognition technology of Artificial Intelligence has raised Ethical concerns and biases
- b) Deep Learning Models of Artificial Intelligence shows it lack transparency and Explainability
- c) Adversarial attacks on Artificial Intelligence to manipulate data have strengthened security vulnerabilities
- d) World Economic Forum showed demand vs Availability gap of Artificial Intelligence professionals making AI intricate to use

expand its use

e) Different countries are having different approaches towards regulatory framework of Artificial Intelligence.

6) Conclusion

As a vibrant discourse is going on across the globe about the use of Artificial Intelligence, so the concerns attached with its use are also growing. Because of these intricate challenges to use Artificial Intelligence it is evident that mankind is not ready for widening its horizons. Although many argue that due to the rapid technological advancements, growing understanding of Artificial Intelligence, successful integration of Artificial intelligence in many fields, and human efforts to make a regulatory framework, the horizons of Artificial Intelligence can be widened. But as the concerns of using Artificial Intelligence are surpassing

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its benefits, therefore humankind is not ready for widening the horizons of Artificial Intelligence. Many ethical concerns and biases are attached with Artificial Intelligence which is a dominant hindrance in the way of its use. Not only ethical concerns but Artificial Intelligence usage is also intertwined with many security related issues. It also fails to explain the transparency of its decision making capability. Also the skilled workforce to use it professionally is also very small in whole world. Moreover, the world lacks the regulatory framework to regulate the use of Artificial Intelligence. Therefore due to the complexities of using it, humankind is not ready to expand the usage of Artificial Intelligence.

Many segments

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in the world are eager to expand the use of Artificial Intelligence. But before overcoming the issues of widely using Artificial Intelligence can back fire the humankind.

Therefore keeping in view the potential disaster of irregular usage of Artificial Intelligence, humankind should not expand the wide use of it before addressing the problems.

Several **Ethical concerns and biases** are the major hinderence in the way of humankind to widely use Artificial Intelligence. Ethical concerns surrounding AI include biases in algorithms, privacy issues, job displacement and potential misuse of advanced technologies. These biases can arise from biased training data or the design choices made during the development of the algorithms. It can lead to the discriminatory results. As these concerns have not

been addressed so humankind is not ready for widening horizons of AI.

Not only the ethical concerns, AI also lacks **transparency** ~~issues~~ in decision making process.

This limited information about decision making capability makes decisions, conclusions and recommendations dubious and challenging. This opacity raises concerns about accountability, trust and potential for hidden biases within AI system. This shows due to these issues of skepticism humankind is not ready to widely use AI.

Apart from this AI systems also carry various **security risks**. These security issues ~~arise~~ are giving rise to serious concerns. These security issues may include the manipulation of data and some other important information

C- which can bring disaster for  
r- people. AI system has also raised  
r- concerns about job security of  
people as AI machines are replacing  
human beings and depriving them  
of their jobs. Therefore before overcoming  
such grave security concerns it is  
evident that humankind is not  
ready to broaden the horizons of  
AI.

Apart from this, **skilled workforce**  
to operate AI systems is also meagre.  
Educational facilities to learn AI  
are also not widely available. This  
shows that with the shortage of  
skilled labour to use AI it  
is not a right time for mankind  
to expand the use of AI  
widely across the world because  
in this case results would be  
disasterous.

In addition to all  
above issues of AI, another



Chief problem related to expanding horizons of AI is the **absence of a universal regulatory framework** to use AI. This problem is bringing multiple issues as different ethical concerns are arising all around the globe due to the use of AI. This manifests unpreparedness of humankind to widen the horizons of AI.

Although AI is intertwined with multiple crisis regarding its use but still humankind has potential and is ready to widen the use of Artificial Intelligence. **Technological advancements** which are taking place at a rapid pace are dominating the whole world. Recent breakthroughs in computing power, algorithms, and data availability have paved the way for more sophisticated AI systems. For example, the development of powerful Graphic

Processing Units (GPUs) has significantly ~~reduced~~ increased the processing capabilities of AI Systems. This shows humankind is ready to explore and develop AI applications beyond previous limitations.

In addition to technological advancements, **increased understanding of AI and growing expertise** of AI among researchers, engineers, and the general population have created a conducive environment for further exploration. For example, the rise of online educational platforms and specialized AI courses such as offered by Coursera and edX, has enabled individuals worldwide to gain expertise in AI. This reflects preparedness of humankind for widening the horizons of AI.

Moreover, **Global collaborations** to expand use of AI are also increasing. The collaborative

spirit facilitates the exchange of ideas and accelerates the development of AI technologies. For example, international conference on AI such as NeurIPS (Conference on Neural Information Process Systems and ICML (International Conference on Machine Learning) attracted researchers and professionals globally, fostering collaboration and knowledge exchange. These collaborations shows humankind is ready to widely use Artificial Intelligence.

So far humankind

**Successfully integrated AI in various sectors** such as healthcare, finance, and autonomous systems, demonstrates its effectiveness and encourages the pursuit of new applications. AI applications in health care, such as diagnostic tools and personalized medicine, showcased the potential for significant positive impact. This manifests humankind's potential for widening the horizons of AI.

Although a proper regulatory framework is absent worldwide to regulate the use of AI but humankind is **conscious to establish a universal framework**. Several measures have been taken such as development of ethical AI guidelines as outlined by organizations like IEEE (Institute of Electrical and Electronics Engineers) and European Commission's High Level Expert Group on AI reflecting a commitment to responsible AI development. This shows humankind is ready to leverage the potential of AI widely across the world.

Despite all these leverages of using AI still the concerns overpass the benefits reflecting unpreparedness of humankind for widening horizons of AI. **Facial Recognition technology** has given rise to serious ethical concerns as it has elements of racism and

gender biases. Studies showing higher errors for people of color and women. The Gender Shades Project, led by Buolamwini at MIT Media Lab demonstrated that commercial facial recognition systems had higher error rates in identifying darker skinned female faces compared to lighter skinned faces. These ethical issues show that humankind is not mature enough to widely use AI.

Apart from ethical issues, transparency issues are also the hindrance in the way to widely use AI. Deep Neural Systems such as those used in deep learning models, often operate as 'black boxes' making it challenging to understand how they reach specific conclusions. This lack of transparency raises concerns about accountability and potential for biased decision making and making it difficult for humankind to widen horizons of AI.

## Adversarial attacks on AI

**Systems** involve manipulating input data to deceive the model. This raises security issues of using AI. Researchers have demonstrated that adding imperceptible perturbations to images can mislead image recognition algorithms posing security risks in real world applications. These security risks, thus hinders humankind for widening horizons of AI.

Moreover the demand for AI professionals far exceeds the current supply indicating a significant **skill gap**. As according to World Economic Forum, the 'Future of Jobs Report 2020', there is a growing demand for AI and machine learning specialists yet a shortage of skilled professionals hinders the ability of industries and organizations to effectively manage and implement AI technologies and showing unpreparedness of humankind

to widely use AI.

Although few efforts have been ~~not~~ taken to form a framework to regulate the use of AI but still a **Universal framework** is absent raising concerns about the use of AI in whole world. Some countries have comprehensive frameworks while others lack specific guidelines. This disparity demonstrates that in absence of a universally accepted regulatory framework the horizons of AI cannot be widened.

So, it can be concluded that although humankind is using Artificial Intelligence at a limited scale but the concerns attached with its use are still unaddressed. As a result it is evident that humankind is not ready for widening horizons of Artificial Intelligence. But keeping in view the potential benefits of using AI

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it is <sup>also</sup> fair enough to say that humankind should rapidly work to overcome all the issues and should make a conducive environment for widely using Artificial Intelligence as it is the only way forward to leverage from AI.