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FUTURE IMPACT OF ARTIFICIAL INTELLIGENCE (AI)

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Abstract: The influence of artificial intelligence (AI) and its potential advancement in a variety of future industries are the subjects of this study. Both primary and secondary data are used in the study. Through G-Forms, Articles, and Websites, the data is gathered. The study's goal is to examine the evolution of artificial intelligence. It has minimal restrictions and concerns. According to the study's findings, artificial intelligence (AI) will have a bigger influence on a various industry, and its development will have a greater influence on the future.

INTRODUCTION

The idea of artificial intelligence, or AI, has existed formally since the 1950s. John McCarthy is one of the "founding fathers" of artificial intelligence, along with Alan Turing, Marvin Minsky, Allen Newell, and Herbert A. Simon. It was described as the capacity of a machine to carry out a task that would have required human intelligence. This is a very broad concept that has changed over the years as a result of study and technological development. When you hear the term "artificial intelligence," you might picture self-driving cars, robots, ChatGPT or other AI chatbots, or artificially created digital images. However, it's equally critical to examine AI's inner workings and take into account its consequences for the following generation. But it's also critical to understand how AI works and what it means for the coming generation by looking beyond the technology's outputs.

Artificial intelligence, more specifically computer systems, is a simulation of human intelligence. Natural language processing, speech recognition, machine learning, and expert systems are some of the applications. It is the ability of devices and systems to acquire and apply knowledge, and convey it to intelligent behavior. Additionally, some aspects of human intelligence, like as learning, problem-solving, and even a small amount of creativity, emotion, and social intelligence, may be displayed by current AI systems.

TYPES

Artificial Intelligence can be divided based on

- Capabilities/ Learning
- Functionalities

ARTIFICIAL INTELLIGENCES BASED ON CAPABILITIES/ LEARNING

Artificial Intelligence based on learnings or capabilities are:

- Narrow AI/ Weak AI
- General AI/ Strong AI
- Super Intelligent AI

NARROW AI / WEAK AI:

The use of voice assistants like Siri, Alexa, and Google Assistant depends on artificial narrow intelligence (ANI). Intelligent systems that have been created or directed to carry out certain jobs or find answers to specific problems fall into this category even though they weren't intended to.

A subclass of AI known as narrow or weak AI is capable of intelligently performing a single task. Narrow AI is the kind of artificial intelligence that's the utmost current and generally available. The most common and extensively accessible type of artificial intelligence is narrow AI. Narrow AI is the most current and generally available form of artificial intelligence. Narrow AI cannot complete tasks that are outside of its domain or set of limitations because it is exclusively trained for a specific task. Given the jobs it can execute, it is frequently referred to as weak AI. If narrow AI goes too far, it could fail in a variety of unanticipated ways. An example of an ANI is IBM's Watson supercomputer and ChatGPT, which are configured to produce text responses as part of a specific mission.

GENERAL AI/STRONG AI:

Strong AI, also known as artificial general intelligence (AGI), is still considered to be a far-off concept because it requires machine learning and the capacity to perform a variety of tasks based on its experience. Because it is more on the level of human understandings, AGI systems can think like humans. The ability to think, learn from experiences, and apply information to solve issues would be possessed by this type.

We are essentially talking about a computer or system that is capable of common sense, which is present in all forms of AI today. Though it is still far off, the ultimate goal of AI research is to build a system that has its own unreachable awareness.

SUPER INTELLIGENT AI:

This kind of AI would operate approximately identically to human intelligence. It may even develop its own intelligence on its own, and its cognitive abilities would far exceed those of any living being. Another theoretical idea with significant ethical and philosophical ramifications is superintelligent AI.

It is still only a hypothetical idea to have an intelligent system that can make money and grow over time. It is a system, nonetheless, that if used effectively and responsibly, has the potential to result in significant advancements and successes in science, technology, and other areas.

ARTIFICIAL INTELLIGENCES BASED ON FUNCTIONALITIES

Artificial Intelligence based on functionalities are:

- Reactive Machines AI
- Limited Memory AI
- Theory Of Mind AI
- Self-aware AI

REACTIVE MACHINES AI:

Reactive machines are the most prevalent kind of artificial intelligence that doesn't maintain memories or base judgments on previous experiences. It only works with up-to-date information. They absorb their surroundings and react to them. Reactive machines are assigned certain tasks to execute but lack the ability to perform other activities.

LIMITED MEMORY AI:

Limited Memory AI learns to make decisions using historical data. Such systems have temporary memory. They are permitted to use this historical information for a limited time but are not permitted to add it to a library of their experiences. Autonomous vehicles employ this kind of technology.

THEORY OF MIND AI:

Theory of mind AI signifies an advanced class of technology and exists only as a concept. Such a kind of AI requires a thorough understanding that the people and effects within a terrain can alter passions and actions. It should understand people's feelings, sentiments, and studies. In deed though numerous advancements are there in this field, this kind of AI isn't completely complete yet.

SELF-AWARE AI:

Self-aware AI only exists hypothetically. similar systems understand their internal traits, countries, and conditions and perceive human feelings. These machines will be cleverer than the human mind. This type of AI is a little far brought given the present circumstances. Still, in the future, achieving a stage of superintelligence might be possible.

REVIEW OF LITERATURE

Stephen Hawking: AI will transform or destroy society, CNBC (Oct. 20, 2016).

Yuval Noah Harari, "Who Will Win the Race for AI?" Foreign Policy Magazine (Washington, Winter 2019).

Massimo Renzo, "Revolution and Intervention" (2020) 54 Nous 233, 243.

Haydn Belfield, Activism by the AI community: Analyzing recent achievements and future prospects, PROC. AAAI/ACM CONF. ON AI, ETHICS, & SOC. (2020).

OBJECTIVES

In today's world, the evolution of Artificial Intelligence and technology has increased. The objective of this research is

- To analyze and understand the role of AI in today's world.
- To analyze the Future impact of AI.

RESEARCH METHODOLOGY

Current study is based on both primary and secondary data collection methods. The primary data is collected through the online platform (forms). 70 data was collected and was fit for the statistical analysis. The secondary data was collected through websites and newspaper articles.

DATA ANALYSIS

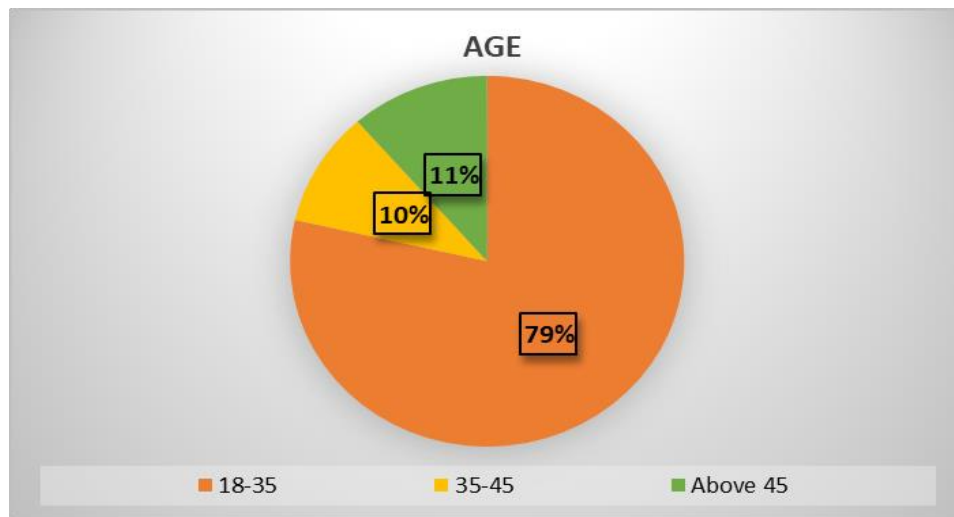
The data was collected with the help of Google forms and received around 70 responses. The respondents are from different kinds of age groups.

QUESTIONNAIRE

The Questionnaire contains the basic details such as:

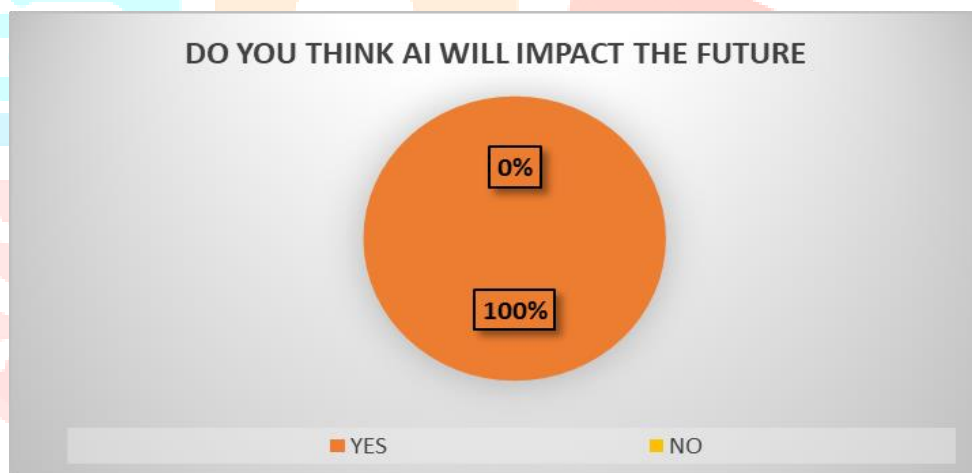
- Name
- Mail id
- Gender

1. AGE



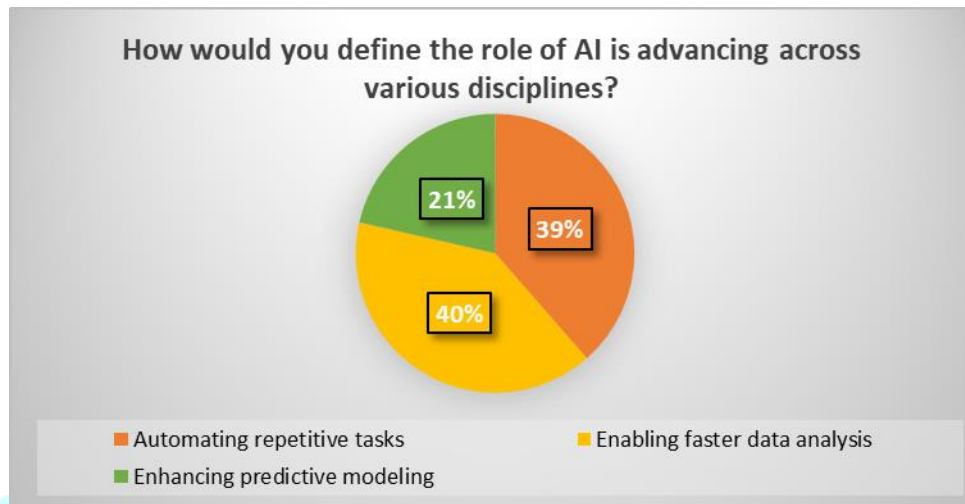
There are a wide range of age groups of respondents. The data contains the age groups of 18-35, 35-45 and above 45. The responses received are majorly from 18 - 35 age group, followed by above 45 and 35 - 45 age group.

2. DO YOU THINK ARTIFICIAL INTELLIGENCE (AI) WILL IMPACT THE FUTURE?



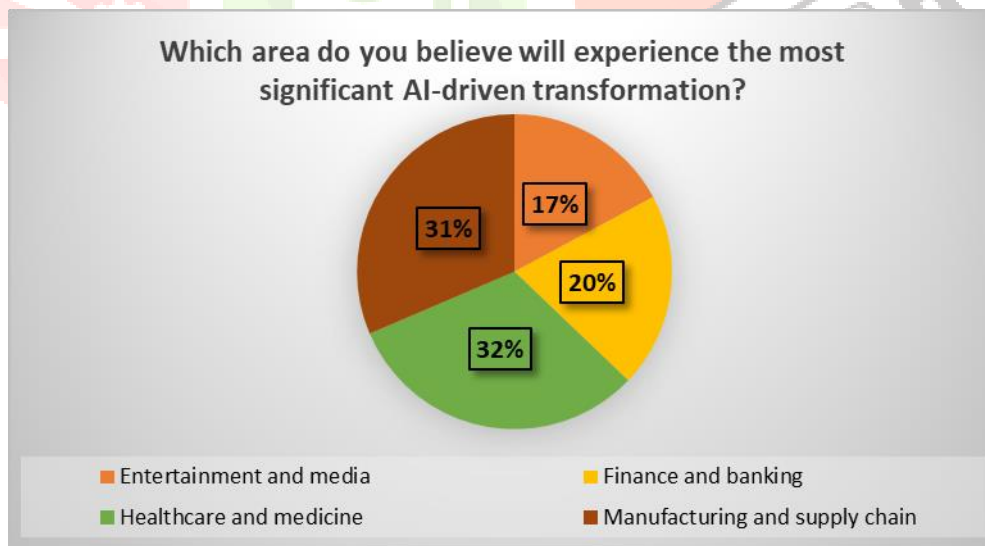
All the respondents think Artificial Intelligence will impact the future.

3. HOW WOULD YOU DEFINE THE ROLE OF AI IS ADVANCING ACROSS VARIOUS DISCIPLINES?



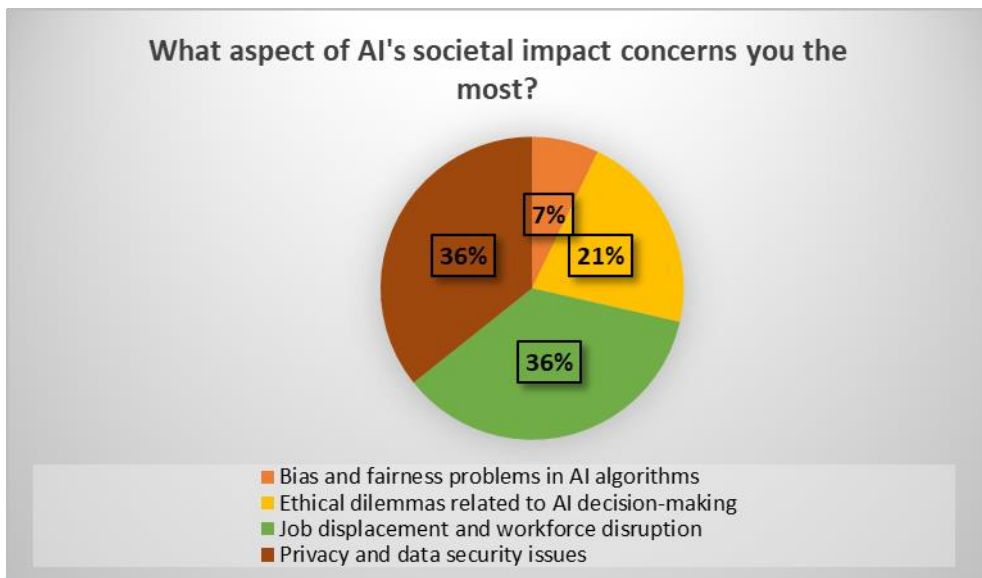
The role of AI is advancing across various disciplines. In the opinion of respondents, the most advanced role is Enabling faster data analysis with 40%, Automating repetitive tasks with 39% and enhancing predictive modeling with 21%.

4. WHICH AREA DO YOU BELIEVE WILL EXPERIENCE THE MOST SIGNIFICANT AI-DRIVEN TRANSFORMATION?



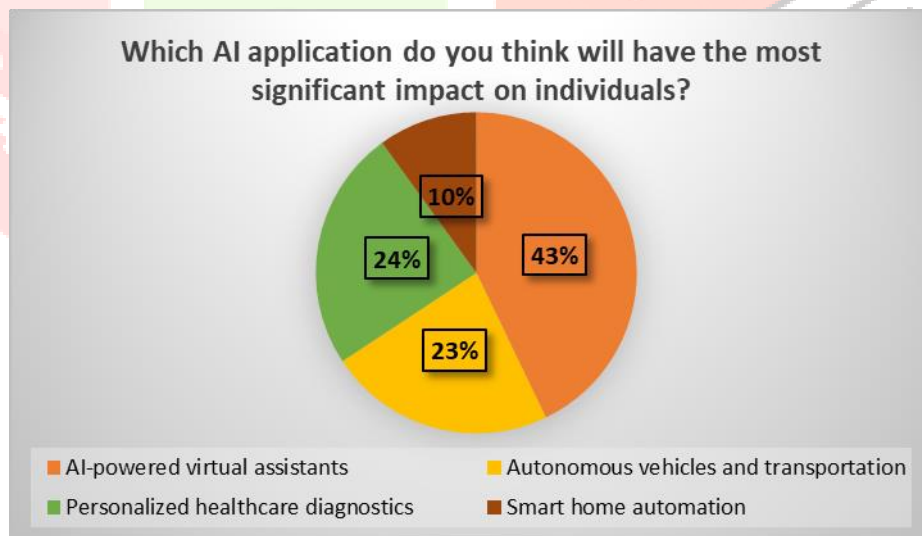
The most significant AI- Driven transformation areas are Health care and Medicine, Manufacturing and supply chain, Financing and banking, Entertainment and Media are followed by 32%, 32%, 20% and 17% according to the data collected.

5. WHAT ASPECT OF AI'S SOCIETAL IMPACT CONCERNS YOU THE MOST?



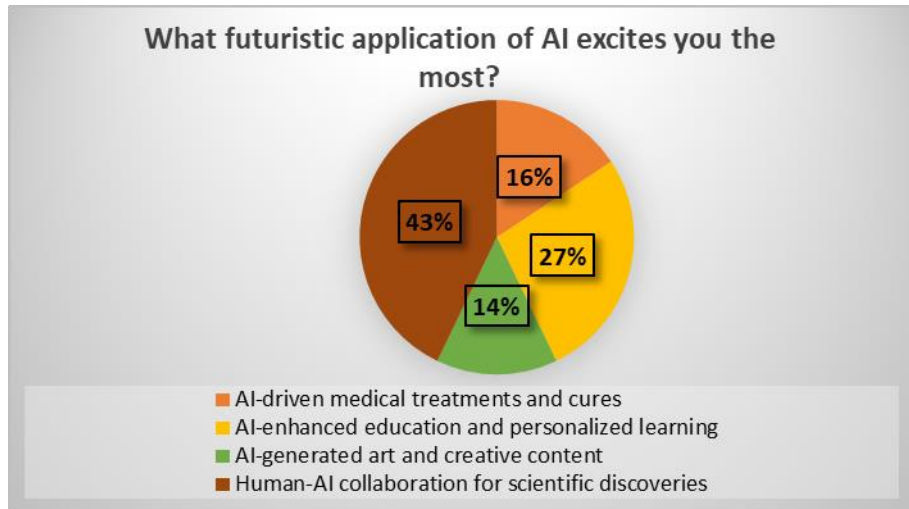
Job displacement and workforce disruption, privacy and data security issues are the major societal concerns of Artificial Intelligence in the view of respondents with 36%. It is followed by Ethical dilemmas related to AI decision-making and lastly Bias and fairness problems in AI algorithms.

6. WHICH AI APPLICATION DO YOU THINK WILL HAVE THE MOST SIGNIFICANT IMPACT ON INDIVIDUALS?



Most of the respondents think AI-powered virtual assistants will have the most significant impact on individuals which received 43%, Personalized healthcare diagnostics which received 24%, Autonomous vehicles and transportation which received 23% and Smart home automation which received 10%.

7. WHAT FUTURISTIC APPLICATION OF AI EXCITES YOU THE MOST?



The futuristic application of AI that excites respondents the most is Human-AI collaboration for scientific discoveries, AI-enhanced education and personalized learning, AI-driven medical treatments and cures and AI-generated art and creative content which resulted as 43%, 27%, 16% and 14%.

LIMITATIONS OF THE STUDY

The study restricts to a limited response. The response received are according to the mindset and their thinking which may differ in the final outcome. The thought process may differ in accordance with change in time.

CONCLUSION

The study concludes that Artificial Intelligence (AI) will have a greater impact in the future. Many industries will implement the usage of Artificial Intelligence in accordance with time. The evolution of AI will have few limitations and concerns but may differ or change in the future. The evolution of technology will influence the usage of Artificial Intelligence for several industries and sectors in the future.

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