AN ANALYTICAL STUDY ON THE IMPACT OF ARTIFICIAL INTELLIGENCE IN THE FUTURE

Ankit Ajay Mishra[1] and Dr. Sanjay Mishra[2]

Student[1] and I/C Principal[2], Shree L.R. Tiwari Degree College, Thane, Maharashtra

ABSTRACT

Artificial Intelligence has almost taken over every field today so it's necessary to understand how it works and what are the pros and cons of AI. The world is rapidly shifting towards technology and modernization. In all this Artificial Intelligence is playing an important role. The researcher in his paper has collected the responses of 74 respondents through circulating the Google form questionnaire. The researcher has frame three objectives in the paper related to Artificial Intelligence. The findings of the paper show that AI can take over our jobs in the future and this will lead to increase in unemployment rate. Very few people have a complete knowledge of Artificial Intelligence and therefore people are getting attracted towards AI and are curious to dive into the concept of AI.

Keywords: Artificial Intelligence, Technology, Modernization, Unemployment.

INTRODUCTION

The development of full artificial intelligence could spell the end of the human race....It would take off on its own, and re-design itself at an ever-increasing rate. Humans, who are limited by slow biological evolution, couldn't compete, and would be superseded."

STEPHEN HAWKING

The word Artificial Intelligence derived of two words 'Artificial' and 'Intelligence'. The word Artificial means something made by people and the term Intelligence means the capacity to learn and solve problems. So the term Artificial Intelligence or AI means a method to make a machine, robot or computer to think like humans.

For example: Self-Driving Cars, Chabot, Maps and Navigation.

The application of AI is almost everywhere. Right from manufacturing products to defense. Exoskeletons or exo-suits are the gadgets worn by a soldier over a regular uniform by a soldier over a regular uniform to improve his/her strength. Artificial Intelligence was first used in the year 1956 at Darmouth College and from then there's continue effort going on to include AI in the daily basis as much as we can. Mainly there are 6 branches of AI: Robotics, Fuzzy logics, Expert Systems, Neural Networks, Machine Learning, Natural language Processing.

REVIEW OF LITERATURE:

(1) Artificial intelligence in information systems research: A systematic literature review and research agenda Christopher Collins, Denis Dennehy, Kieran Conboy, Patrick Mikalef https://www.sciencedirect.com/science/article/pii/S0268401221000761. In recent years, the information systems research community has paid more attention to AI. By conducting a rigorous literature evaluation of AI research in IS between 2005 and 2020, this work tackles this question. His study contributes significantly by identifying the present stated economic value and contributions of AI, as well as research and practical consequences on AI use and potential for future AI research in the form of a research agenda.

(2) Systematic review of research on artificial intelligence applications in higher education – where are the educators?

(3) OlafZawacki-Richter. https://educationaltechnologyjournal.springeropen.com/articles/10.1186/s41239-019-0171-0. Artificial intelligence (AI) is one of the newest fields in educational technology. While it has been available for almost 30 years, educators are still unsure how to use it for pedagogical purposes on a larger scale, and how it may have a meaningful impact on teaching and learning in higher education.

The results are summarized in four areas of AI education applications in academic support services, as well as institutional and administrative services: 1. profiling and prediction, 2. assessment and evaluation, 3. adaptive systems and personalization, and 4. intelligent tutoring systems.

(4) Creativity and artificial intelligence, Margaret A Boden, https://www.sciencedirect.com/science/article/pii/S0004370298000551. Creativity is a key aspect of human intelligence, as well as a difficult task for AI. Artificial intelligence approaches may be used to generate new ideas in three ways: by combining known concepts in unique ways, exploring the potential of conceptual spaces, and transforming ideas that were previously impossible to generate. Modeling the genesis of new ideas will be easier for AI than automating their evaluation.

(5) The role of Artificial Intelligence in future technology. Amr Kayid. https://www.researchgate.net/publication/342106972_The_role_of_Artificial_Intelligence_in_future_techno logy. Artificial intelligence is the science and engineering of creating intelligent machines with the goal of enabling machines to think, approach, and surpass human intelligence. We begin with a broad introduction to artificial intelligence, then move on to the birth, history, and rise of artificial intelligence in this paper. The paper will discuss fundamental and current artificial intelligence research, such as reinforcement learning, robotics, computer vision, and symbolic logic.

RESEARCH METHODOLOGY

- **Objective:**
- To understand how AI works.

- To study the impact and scope of AI in the future.

- To understand the role of AI in today's generation and it's application.

Data Analysis and Interpretation:

Table No.1 Demographic Data Collection

Demographics	Particulars	Respondents	Percentage
Gender	Male	40	54.10%
	Female	34	45.90%
	Prefer not to say	0	0
Age bracket	Below 15	2	2.70%
	15-30	69	93.20%
	30-45	1	1.40%
	45-60	2	2.70%
	Above 60	0	0.00%
Designation	Student	68	91.90%
	Teaching Staff	2	2.70%
	Working Professional	2	2.70%
	Housewife	1	1.40%
	Other	1	1.40%

The above table shows that there are 40(54.10%) male respondents and 34(45.90%) of female respondents who have responded through Google form circulated by the researcher. The researcher has collected total 74 responses through the circulation of the Google form. The table also shows that out of 74 responses 68(91.90%) are students and 69 (93.20%) respondents lie in the age bracket of 15-30 years. And others belong from different age groups

Table No.2 Data Collection

Questions	Can Artificial Intelligence take over humans in the coming 15-20 years?	According to you, Can AI help in development of a nation?	Is AI really an existential threat to humanity?
Strongly Agree	13	22	1
%	17.60%	29.70%	1.40%
Agree	28	36	15
%	37.80%	48.60%	20.30%
Neutral	23	13	40

%		31.10%		17.60%		54.30%
				2		11
Disagree		9		2.70%		14.90%
%		12.20%				
Strongly Disagree		1		1		7
%		1.40%		1.40%		9.50%

The above table shows that 17.60% respondents strongly agree and 37.80% respondents to the fact that Artificial Intelligence will take over humans in the coming 15-20 years whereas 10 respondents disagree to the fact. Also 58 respondents agree that AI help in development of a nation and 3 respondents opposes the statement. 21.70% feels that AI is really an existential threat to humanity and 24.40% doesn't think so. Surprisingly 54.30% respondents stay neutral.
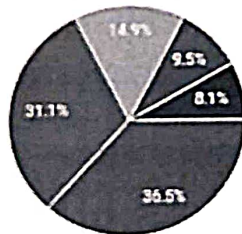
Table No.3 Data Collection

Questions	Looking at the rapid growth of AI. Should AI be the primary subject for school kids?		What do you think; Will AI steal the jobs of people in future?
Yes	43		42
%	56.90%		56.80%
No	8		12
%	11.10%		16.20%
Maybe	23		20
%	32%		27%

The table above represents some opinion of the respondents that we collected by the researcher with the help of google form. 43 repondents out of 74 agrees that AI should be a subject for school kids whereas 8 repondents don't think so. Also 56.80% respondents believes that Artificial Intelligence will steal jobs of people in the futue and 16.20% think that it won't cause any harm to the job of common people.

Are you aware about the term Artificial Intelligence?
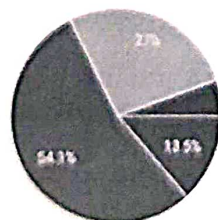
74 responses

- Completely aware
- Slightly aware
- Somewhat aware
- Moderately aware
- Not at all aware

The above diagram represents that 36.5% respondents are completely aware about the term Artificial Intelligence whereas 8.1% are not at all aware. 55.4% respondents are Slightly, Somewhat or moderately aware about the term AI.

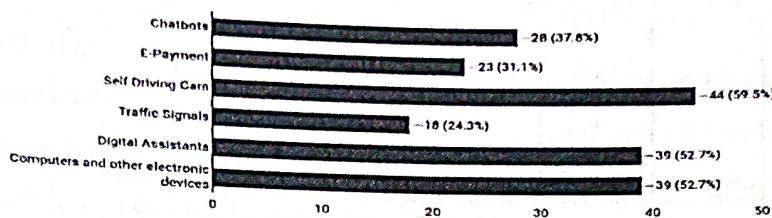What do you think how much we are dependent on Artificial Intelligence?

74 responses

- Completely dependent
- Slightly dependent
- Moderately dependent
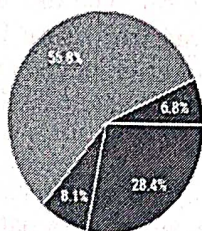- Not at all dependent

According to the above pie diagram 13.5% respondents believe that we are Completely dependent on Artificial Intelligence. Also 5.4% respondents thinks that we're not at all dependent on AI. 54.1% says we are slightly dependent on Artificial Intelligence and 27% believes we are moderately dependent on AI.

What are some real-world applications of Artificial Intelligence?
74 responses

The above graph shows comparision between various real-world application of AI. 59.5% respondents believe that Self Driving cars are perfect example as well as application of Artificial Intelligence. 24.3% thinks Traffic Signals are the application of AI but traffic signals works on the mechanism of embedded system.
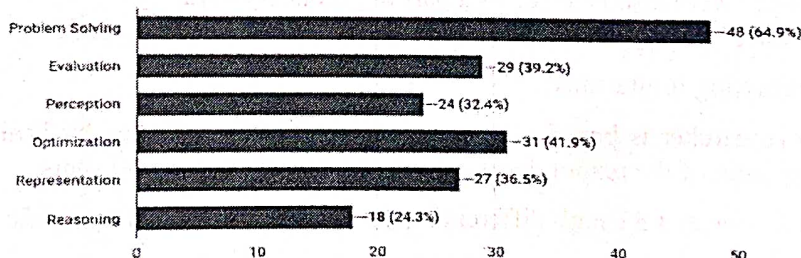
What is Artificial Intelligence according to you?
74 responses

- Artificial Intelligence provides systems the ability to automatically learn and improve from experience without being...
- Artificial Intelligence imitates the way humans gain certain types of knowledge
- Artificial Intelligence (AI) is the ability of a computer or a robot controlled by a computer to do tasks that are usually d...
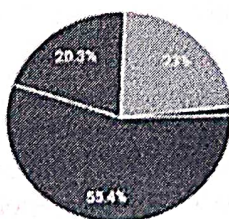- Artificial Intelligence is a type of programming language

From the above pie diagram we can conclude that 56.8% repondents believe that Artificial intelligence (AI) is the ability of a computer or a robot controlled by a computer to do tasks that are usually done by humans because they require human intelligence and discernment. And 6.8% respondents think Artificial Intelligence imitates the way humans gain certain types of knowledge.

Among the following, What are the components of Artificial Intelligence?
74 responses

The above graph shows us that according to 64.9% respondents 'Problem Solving' is the major component of Artificial Intelligence followed by 'Optimization' with 41.9% and so on.

Why do we need Artificial Intelligence?
74 responses

- To ease down human work
- To create intelligent machines that can mimic human behavior
- To enlighten everyone towards better future
- To make things difficult

From the above pie diagram we can understand that 55.4% respondents believes that we need AI to ease down our daily work. 20.3% repondents think we need AI to create intelligent machines that can mimic human behaviour whereas 23% think we need Artificial Intelligence to enlighten everyone towards better future.

FINDINGS

1. From the data collection 29.8% respondents believe that AI is a threat to humanity. Whereas more than half respondents stays Neutral.

2. 56.8% says AI will steal jobs of people and increase unemployment rate.

3. AI helps in development of a nation. Well 78.3 respondents says so.

4. More than half of the respondents (55.4%) believes Artificial Intelligence will takeover humans in the coming 15-20 years.

5. 56.9% respondents agrees to the statement that AI should be a part of syllabus for school students and 11.1% opposes the statement.

SIGNIFICANCE OF THE STUDY

The study conducted by the researcher signifies that Artificial Intelligence is used to ease down human work. In the coming future we will be completely dependent on AI. The development of a nation is a key factor for any country, AI plays significant role in the development of a nation. Artificial Intelligence helps in almost everything, from making Defence equipments to driving a car. The use of AI and its branches have increased the chances of job losses in the future. It is been observed that many Universities are introducing Artificial Intelligence in their curriculum. Also the researcher has collected the data in which many respondents suggested that AI should be included as a subject for School kids too.

SCOPE OF THE STUDY

The interpretation of this probe covers how Artificial Intelligence works and what will happen to AI in the coming 15-20 years. It also cover how AI can help in development of a nation.

Source of Data Collection

Primary Data: The primary data was collected on the basis of Google form which was having 11 questions in it an 74 respondents responded to the questions and survey done by the researcher.

Google form link: https://forms.gle/xJyC2AQAeTaeUbiv7

SECONDARY DATA: The secondary data is accumulated by surfing various topic based websites and readin several books based on Artificial Intelligence. Also few videos were used as a part of the research paper. Article and some research paper were also referred as a part of secondary data.

LIMITATION OF THE STUDY

This study has the following limitations:

1. The Study of the researcher is based on primary data which is collected by limited number of respondents i.e.74 and the age limit of the respondents is limited from 15 years to 60 years.

2. The secondary data collected through different sources were not objective specific.

3. The predilection of the respondent towards the data gained cannot be excluded.

4. The respondents may have been bias which cannot be overlooked.

SUGGESTIVE MEASURES

1. Artificial Intelligence can be harmful for humans if not used properly

2. Artificial Intelligence should also be developed for the abnormals

3. Government can spread awarness about AI in rural areas

CONCLUSION OF THE STUDY

The above scrutiny done by the investigator concludes that Artificial Intelligence is a key factor in development of any nation. AI can also lead to unemployment in the future as it might take over our jobs. We can also conclude that we are dependent on Artificial a lot at this time. Self-Driving cars are perfect example of Artificial Intelligence. A fine proverb says "It has become obvious that our technology has exceeded our humanity". Artificial Intelligence has its cons too like: Increase in unemployment, no ethics, makes human lazy and so on.

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