

Artificial Intelligence and its Impact on Employment

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Abstract - Advances in Artificial Intelligence (AI) and Automation will transform our world. The study is done to find out how much of an impact Artificial Intelligence will make on Jobs. The study will also show much percent of the people believe their jobs will get affected by Artificial Intelligence. It will show us the generalized view of the public and the degree of understanding of the people related to Artificial Intelligence(AI).

Contrary to the popular misconception that Artificial Intelligence will steal jobs by reducing the amount of time taken to perform tasks and by doing tasks accurately, Artificial Intelligence will automate and reduce the time taken to run tasks ie it will not steal jobs from people but in a way it will only steal tasks

Key Words: Artificial Intelligence , Jobs , Misconceptions, Inventions, Machine Learning.

1.INTRODUCTION

An Artificial Intelligence System is a machine which can interpret external data, learn from it and predict future outcomes and can deduce the results on its own by using the information it gained from past result sets. Artificial Intelligence uses machine Learning to look for patterns in the existing data and learn from it .

Now a days we use Computers to reduce our day to day tasks by letting them perform it.

Day to Day tasks can be automated using RPA(Robotic Process Automation) which is a technology based on the notion of AI workers.

Robotic Process Automation can perform tedious recurring tasks quickly and in an efficient manner. They have a huge impact on any industry by increasing the efficiency by ten fold.

A study by Oxford University predicts that 35% of all jobs will have been automated by the year 2035.

2. Research Methodology

The study is used to understand how Artificial Intelligence will impact employment opportunities in the future. Should we genuinely be concerned about its impacts or is it just a widespread misconception.

Survey was conducted and data was collected from various sources. We created the questionnaires by asking a set of very specific questions which was decided after thorough analysis. The study was conducted on a sample size of 150 individuals. We tried to spread the survey across multiple social media platforms such as facebook, linked in, Instagram to get as many responses as possible so as to increase the sample size.

We have designed a questionnaire of 10 Question ranging from basic Information to asking about career, and their opinions on AI and whether the individuals think there is a possibility of them losing their job because of a Program.

The Questions were designed to better understand the mindset of individuals on the idea of Artificial intelligence. We also get to see how much understanding does the common population have on the concept of Artificial Intelligence. We tried to keep the sample size as diverse as possible to get accurate results on the survey. Individuals from various age groups and genders were asked the same questions. Individuals from different Professional background were tried to be incorporated into the study so as to get an unbiased study result.

3. Significance of Study

Artificial Intelligence has already started impacting jobs.

The Sectors that Artificial Intelligence will have the most effect are :

3.1 Transportation

Transportation is already in a mode of transformation — full independent vehicles will quickly become a reality — and they will be safer, more efficient and more efficient. Professional riders (cab drivers, trucks and more) will see a rapid drop in demand for their skill set.

3.2 Electronic commerce

Electronic commerce will also undergo a major transformation: fulfillment centers will be fully automated, with robots navigating the room to collect products and perform client orders ; shipping or even delivering automatically to clients with independent drones and/or vehicles. The significance of salespeople and physical stores networks will decrease ; we are close to customer A.I. scenarios. Agents negotiate with agents of Retailer AI on the basis of various goals, tactics and strategies.

3.3 Other Professions

In addition to powerful human relationships such as legal professions, more traditional professions will be considerably affected: typical support facilities in a legal framework have to do with document handling – classification, discovery, summary, comparison, extraction and management of information – duties where AI agents can already do an excellent job.

A.I will also benefit financial services, insurance and any other industry that requires a substantial quantity of data processing and content handling. And statements, governance, and social processes, of course— A.I. Can play a major role in eliminating bureaucracy, enhancing citizen service, and designing and delivering social programs.

4.Hypothesis

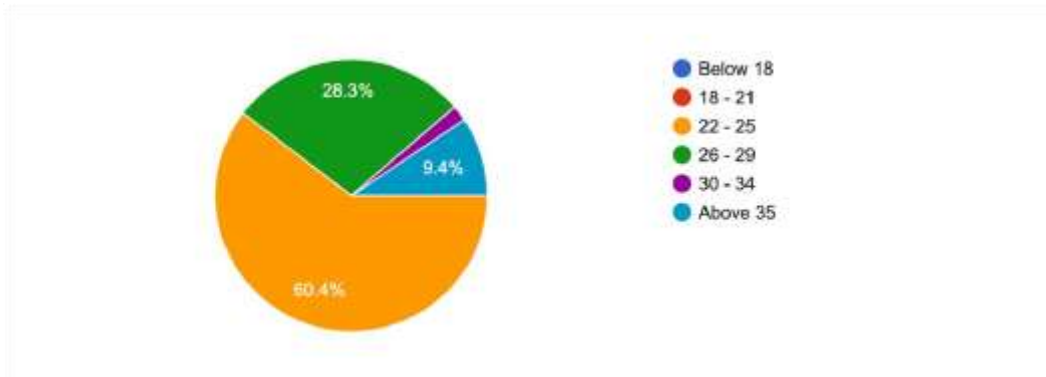


Chart -1: Age Chart

The above image is the graphical representation of the age group of the people who were part of the survey.

Majority of the people surveyed were working professionals ,which explains why they were mostly over the age of 22.

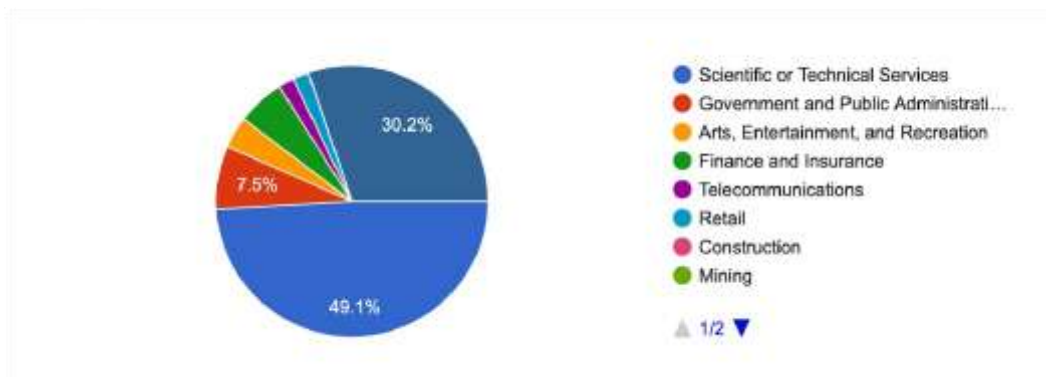


Chart -2: Demographics Chart

The Above graph shows the industries where the people who answered the question work in.

Majority of them were from science ,Information Technology or from the public sector.

4.1 Do You think A.I will affect your job or your industry.

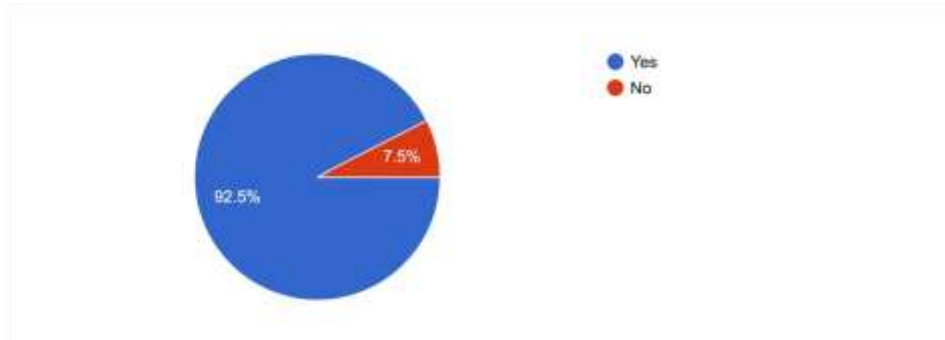


Chart -3: Opinion Chart

The above pie chart shows us that 92.5 percent of people think that Artificial Intelligence will affect their job or their Industry.

Also when asked the question that **who would have better performance on jobs** the results were mixed .

The people who answered that AI would be better were mostly from the public sector and other industries.

Where as the people who answered that humans would be better were from the scientific and the IT community .

The ones who answered that AI would be better mostly said this due to its increase in efficiency and for the fact that AI makes less mistakes than humans.

The ones who answered that humans would be better said this because they believe that humans are needed for innovation and that their spontaneous nature and rational thinking helps in the performance of their jobs.

4.2 The Following is the result of the question about what should be done about the increase and widespread use of AI.

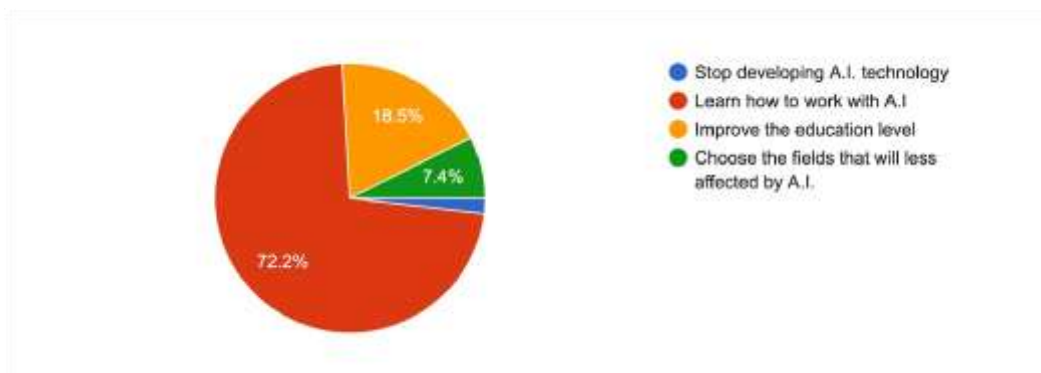


Chart -4: what should be done about AI.

Most of the people want to learn about AI and how to use it for their jobs,

Another majority believe that the education system should be improved , This goes hand in hand with learning how to work with AI.

4.3 If your current job becomes redundant due to AI do you think you will be working on a Job which has not been invented yet?

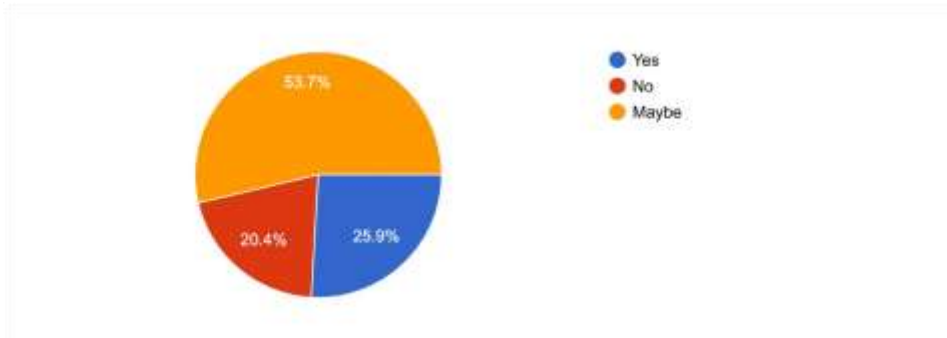


Chart -5: Future Job Certainty answers

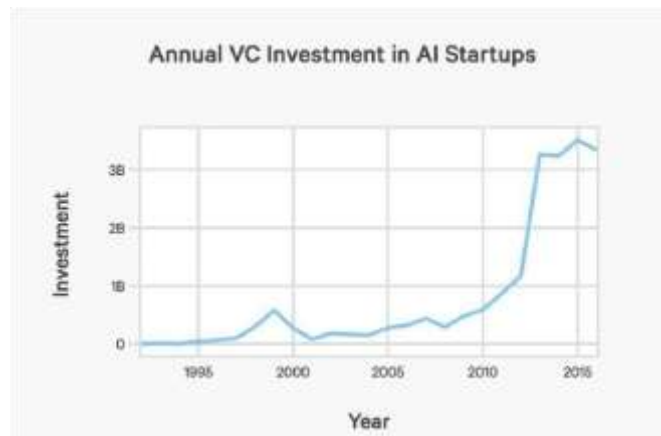
According to the above chart, most people are not sure if they would be working on a job which does not exist right now . Meanwhile 25.9% of the people do believe that due to the boom of AI they would be working on a job which has not been

4.4 Other Questions

59% of the people who filled this survey have not encountered any kind of Artificial Intelligence or Machine Learning Based Projects.

And from those who have encountered Artificial Intelligence or Machine Learning based projects in their organization only 45.5% were actually involved with it.

5. CONCLUSIONS



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Fig-1 VC Investment Graph

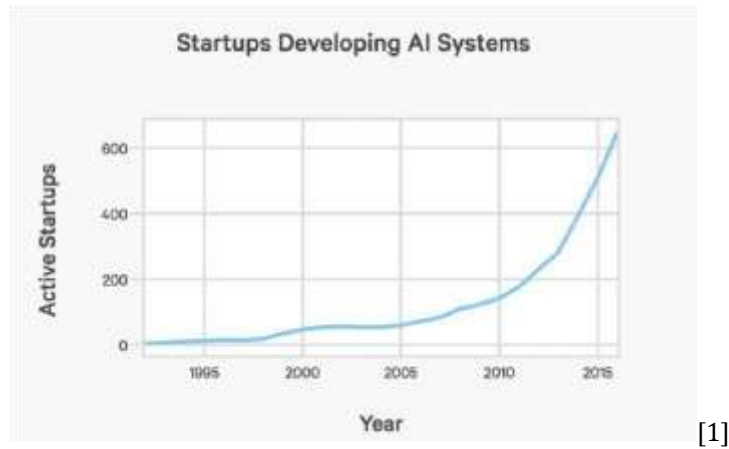


Fig-2 Number Of Startups developing AI.

The above images show the steady increase of investments in artificial intelligence

And also the increase in the number of companies developing Artificial Intelligence Technologies.

Although people think that Artificial Intelligence, Machine Learning and robotic process automation will steal their jobs .

It is the people's responsibility to strive for better education and make the most of the opportunity one gets . This would help one learn more and be better suited to work with AI or any other jobs which would be invented .

On one hand if Artificial Intelligence is improving day by day humans should also improve at the same rate to stay up to date with all the challenges that may arise due to the boom of AI.

Before the boom of the digital age many people thought that they would lose their jobs but instead the industries changed and people started doing jobs which did not exist before the digital age.

REFERENCES

[1] <https://www.forbes.com/sites/louiscolombus/2018/01/12/10-charts-that-will-change-your-perspective-on-artificial-intelligences-growth/#5c0fc5a84758>.