Research Article

AI Impact On Future Jobs And The Risks Involved In Emergence Of AI Technology

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ABSTRACT

Artificial intelligence is the ability of a computer or computer-controlled robot to perform tasks that are commonly associated with the intellectual processes characteristic of humans, such as the ability to reason. Artificial intelligence is the simulation of human intelligence processes by machines, especially computer systems. Examples of AI applications include expert systems, natural language processing (NLP), speech recognition and machine vision.AI is the backbone of smart assistants, which can be accessed through most phones on the market these days and are also being integrated into cars and smart home devices. As of 2022, more than 120 million US adults use a smart assistant at least once a month. This paper concerns with some of the jobs that are at most risk in the growth of AI and also how to rectify certain concerns. This paper also defines some of the jobs that are safe from the Artificial Intelligence and the technology being over taking.

KEYWORDS- *machine learning, machine vision, speech recognition, Natural Language Processing(NLP) and expert system* .

INTRODUCTION

Artificial Intelligence (AI) is the branch of computer science which deals with intelligence of machines where an intelligent agent is a system that takes actions which maximize its chances of success. It is the study of ideas which enable computers to do the things that make people seem intelligent. The central principles of AI include such as reasoning, knowledge, planning, learning, communication, perception and the ability to move and manipulate objects.
Usage of AI in everyday life include 1.Virtual Assistants like Siri and Alexa.
2.Personalized content recommendationson streaming platforms. 3.Fraud detection systems in banking.
4.Navigation apps that suggest the best routes based on real –time traffic data.
Apart from various usage of AI in today's lifestyle, there is always a risk that is being accompanied with the growth of AI. AI was designed in order to reduce human work , which intakes takes over several people's jobs in future. The growth of AI reduces the thinking capability and creativity among human.
Lets first discuss about the jobs that are at most risk by use of AI technology.
1. Financial Manager 2.Buisness Analysts. 3.Management Consultants. 4.Accountants.
Why these jobs are at most risks by the use of AI?
Let's take the example of Financial Manager.. the major role of a Financial manager is to Prepare financial statements, business activity report, and to analyze market trends to find opportunities for expansion or for acquiring companies. This kind of job in future can be done without human intervention. A AI machine or an application which can be programmed to do these work can do the work with more accuracy than human.
This will be the case for other example like 854pskilli Analysts who gathers insights about issues that need resolving or processes that can be improved, management Consultants who assist companies in enhancing their performance by offering expert advice on how to address challenges and expand themselves, Accountants who record all transactions accurately and reconcile accounts.

Impact on Future Jobs:
A report which was produced by IMF(International Monetary Fund) concluded that around 40% of the jobs around world will be affected by the growth of AI. In future that is due to advanced economies the 40% will increase to 60% i.e 60% of jobs will be affected by machine learning,with about half being negatively impacted.
"The technology in itself is neither good nor bad. It is the use which human beings make of any technology which determines both the nature and extent of the benefits".

-Christopher Freeman
The link between productivity growth and technological change is not that straight forward. Comparing the evolution of technological change and its impact on productivity growth to the movement of a snake, the head(technical progress) moves ahead while the tail remains more or less in the same place.

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Without proper governance and reskilling of workers, technology will eliminate jobs faster than it creates them. Governments can no longer provide levels of social protection and an anti-establishment has gained traction.
8 Ways to protect our jobs from AI: 1.Stay Informed and adapt .
2. Develop Unique human skills. 3.Specialize in Niche areas. 4.Collabrorate with AI.
5.Focus on soft skills. 6.Cultivate a Growth Mindset. 7.Build a Professional Network. 8.Diversify your skill set.
ÄI is dependant on the data it consumes and the conclusions it draws are not always accurate".
Änything created by AI will still require human review and common sense"."

5 ways to offsetAI job automation:
➢ Embrace new AI technology.
➢ Invest in AI training and reskilling.
➢ Embrace a growth mindset to offset AI job automation.
➢ Prioritize soft skills to offset AI job automation.
➢ Continue to create new jobs to offset Ai job auotomation.
Lets discuss in etail about the offset automation to help us secure from losing our jobs towards AI.

1. Embrace new AI technology:
Embracing a culture of bold decision making and experimentation is essential for leaders seeking to harness the full potential of AI. By challenging conventional decision-making paradigms and leveraging data-driven insights, leaders can navigate uncharted territory with confidence and agility.

2. Invest in AI training and reskilling:
It is always advisable to be updated about the technology. Learning new skills and techniques can always find place in the developing environment.Soit is advisable to invest in new training and 855pskilling" programs.Retraining solutions like AI driven coaching networks allow workers to learn what they need through AI automation without sending them back to school.

3. Embrace a growth mindset to offset AI job automation.
Rather than the skill base or traditional education and experience learned on the job, workers will be needed to view their skills as a portfolio. This needs constant refinement ,in order to meet that workers are in the expectation to continuous learn new workforce demands.
Worker who proactively seek to expand and evolve their skills independently with the capability of upgrading the advancement of AI will be the most in-demand talent in the years to come.

4. Prioritize soft skills to offset AI job automation.
Things like creativity, abstract thinking, the ability to thrive in diverse environments, communicating, networking, social and emotional intelligence, inter cultural sensitivity, public relations, and elements of digital marketing are inimitable by a machine.
There is always a difference between systems that systems that think like humans and systems that think rationally. Lets take a look about the difference in detail.

Systems that think like humans	Systems that rationally
"the exciting new effort to make computers think machines with minds in the full and literal sense".	"the study of mental faculties through the use of computational models".
Systems that act like humans	**Systems that act rationally**
"the art of creating machines that perform functions that require intelligence when performed by people".	"computational intelligence is the study of the design of intelligence agents"

There are certain rules for a computer to act like human and think like human. One of the rule is to pass the turing test approach. "The Turing Test is a method of inquiry in artificial intelligence (AI) for determining whether or not a computer is capable of thinking like a human being". There are several method to determine whether the interrogating thing is a person or a machine which is also determined by a judge. The computer needs to pass these tests so as to confirm that it can operate without human intervention. To pass the total turing test, the computer will need a **computer vision** to perceive objects and **robotics** to manipulate objects and move about.
The machine would need to posses the following capabilities.
➢ **Natural Language Processing:** To enable it to communicate successfully in English.
➢ **Knowledge representation:** To store what it knows or hears.
➢ **Automated reasoning:** from the stored information the machine gathered it should draw a conclusion.
➢ **Machine learning:** to adapt to new circumstances and to detect and extrapolate patterns.
The ethics and risks of developing Artificial Intelligence:
▪ People might lose their jobs in automation.
▪ People might have too much of leisure time.

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- People might lose their sense of being unique.
- People might lose some of their privacy rights.
- The use of AI systems might result in a loss of accountability.
- The success of AI might mean the end of the human race.

Conclusion:

This paper concludes that only with continuous learning and updating to the technology we can survive with future technological growth. This paper also states that the job we undergo must have some unique nature to project ourselves from the rest of human as well as machine. From the risks about the jobs that is going to vanish from the emergence of AI there exist some of the jobs that are safe from AI. These are the jobs that cannot be completely overtaken by the machines. Any jobs that includes human intervention cannot be imitated by AI. Those job include Health care services, Education, Creative field, Personal Services and etc.

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