

# Artificial Intelligence: its promise and perils

- Introduction
- Thesis statement:

In the field of technology the influence of A.I has been growing rapidly. Global communities have been taking leverage from promises of A.I. It also has perils that human would confront. For instance, At UN Conference, A.I enabled humanoid robots took the microphone. Also, global market size of A-I related products is expected to grow 2.58tn \$ by 2032. Contrary to this, A.I would destroy jobs by automating some task.

- Promises of A.I:

- (a) A.I powered adaptive learning
- (b) A.I driven diagnostic machines enhanced healthcare
- (c) A.I could revolutionise Pakistan's legal system
- (d) Businesses benefits from A.I-infused industry
- (e) A.I in travel and transport

- Perils of A.I:

- (a) Promoting prejudices and inequalities
- (b) Compromising privacy
- (c) Technological unemployment
- (d) Loss of human connection
- (e) Lack of creativity

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- way forward
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## Artificial Intelligence : Promises and Perils

### • Introduction:-

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# Artificial Intelligence & its Promises and Perils

## Introduction:-

We are at the start of new epoch: As A.I transforms war, crime, law, work society — even our understanding of what it means to be human — what was once science fiction is swiftly becoming reality. A.I has the potential to revolutionize our collective future more than any other technology. Said by Max Tegmark in book 'Being human in the age of Artificial Intelligence'.

There have been significant advancements in the field of Artificial Intelligence. There have been significant A.I applications, such as widespread use of practical speech recognition, machine translation, autonomous vehicles and home robotics, algorithmic milestone like solving the checkers game. These advancements discussed in book A.I: A modern approach by Stuart J. Russell. While on the other hand, Super human A.I, in the public imagination, is rising tidal wave that threatens not only job and human relations but civilization itself. Said by Stuart Russell in book Human Compatible: A.I and the problem

of control

In the field of technology, the influence of A.I has been growing very rapidly. Global communities have been taking leverages from promises of A.I. It also has perils that human would confront. For instance, At UN conference, A.I enabled humanoid robots took the microphone. Also, global market size of A.I related products is expected to grow 2.58 trn \$ by 2032. Contrary to this, A.I would destroy jobs by automating some tasks

### Promises of A.I

(a)

A.I Powered adaptive learning:

Adaptive learning an educational method where students get a personalised learning experience. A.I algorithms analyze the way a learner studies, based on the information they get, the algorithms start showing customized content. For example, if we made a mistake in the same task, more than once the programme will provide similar assignments.

A.I implemented in LXP, LMS and other learning applications solve multiple challenges. A.I learning adaptive learning in education are Duolingo, Prodigy, Embibe.

(b)

A.I Driven diagnostic machines enhanced health care:

Before diagnostic machines, medical diseases was to analyzed by symptoms, medical history. With the recent A.I revolution, medical diagnostic process improved. A.I algorithm can analyze medical

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images (X-ray, MRI) and assist health care provider. For performing surgery to carrying out administrative work, robots have become integral part of 1000-bed hospital's workforce, says Selina Seah, director for the center for health care Assistive and Robotic technology. Quantum A-I analyze medical data, leading to accurate diagnosis.

(c) A.I Could Revolutionize Pakistan's Legal system:

A.I has the potential to change the way laws are enforced, interpreted and applied. In Pakistan the backlog of cases in court is a major problem. A.I can help to reduce this backlog in a number of ways. For example, A.I can be used to automate legal processes and make judgments more efficient. For example, Criminal Justice system reforms (CJSR) project uses A.I to analyze and process data to identify non-compliance with the law and inform decision making (Sahibzada M. Mubeen 26, 2023 dawn)

(d) Business benefits from A.I infused Industry:

A small survey of CEOs from small and medium sized businesses conducted by executive coaching company Vistage found that A.I is quickly becoming an important part of business process. Customer-relationship management are designed to gather customer data across communication channels such as email, phone. Platform such as salesforce have

begun implementing A.I that helps small business owners analyze customer feedback from the communication channels. According to **Servion global solution**, by 2025, 95% of customer interaction will be powered by A.I

### A.I in Travel and Transport

Intelligence traffic management may be used to enforce traffic regulations and promote road safety. **Alibaba's City Brain** initiative in china uses A.I technology such as predictive analysis, big data analyses and a visual search engine in order to track road networks in real time and reduce congestion. It also helps in ride sharing and route planning i.e. **Uber** is used.

### Perils of A.I

Promoting prejudices and Inequality:

A.S & Can be use as a weapon of inequality. A.I algorithm represents reality. Employer needing to hire a manager would use an algorithm fed with data on a labour market in which white men have been the most successful social group. The machine indeed would suggest hiring a white man as manager. Similarly algorithm used to predict criminal rates in certain geographical neighbourhood is fed with data, neighbourhood experiencing intense criminal activity. The algorithm **SMART** cops to neighbour, arresting black

(b)

## Compromising Privacy:

Privacy risk of using AI for facial recognition and biometrics is the protection and security of the data. Facial recognition and biometrics involve sensitive and unique personal data that can reveal your identity, location, behaviour, health and preferences. These data are vulnerable to hacking, theft by malicious actors such as cybercriminals, hackers. For example, our biometric data may be stolen and used to impersonate us or blackmail us.

(c)

## Technological unemployment:

Research at Brigham Young University in Utah, suggests fear that 14% of workers have already had a role replaced by automation (robots). In transportation, self-driven vehicles that do not require any human driver for its movement with the growth in these automated vehicles. The demand for professional like car drivers, sailors and pilot would rapidly drop down, likewise, nurses in healthcare and teachers in teaching would be reduced.

(d)

## Loss of human connection:

As more people rely on AI for social interactions the amount of human contact is reduced. This can lead to feeling of alienation and isolation from friends and family. For example, the use of AI powered chatbots can give people the

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Illusions of talking to another human being. These bots often mimic human interactions but lack the ability to truly understand what people are saying, leading to empty conversations that can leave people feeling lonely.

### (e) Lack of creativity:-

A big disadvantage of A.I is that it cannot learn to think outside the box. A.I is capable of learning over time with pre-fed data and past experience, but cannot be creative in its approach. A classic example is the bot Quill who can write Forbes earning reports. These reports only contain data and facts already provided to the bot.

### Way forward

Various governments have recently established A.I policies, and in some cases are still formulating them. There should be co-operation at international level regarding A.I policies. Various measures should be taken for security. Also ensure the development of the necessary infrastructure security problem of resilient supply chain and raw material should be addressed.

### Conclusion:-

A.I technology increasing day by day. It has many promises and perils as well. It is benefitting people but also their privacy is compromising.



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As it is giving profit benefit, on the other hand, it may pose threat to jobs. It is not possible to take only advantages from something everything has pros and cons so, A.I has many promises and perils.

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