

AI: the driving catalyst of new era of growth

Outline

I Introduction

Thesis: AI is a driving catalyst in the political, social, and economic progress, unleashing a new era of growth. However, despite its immense contributions, it gives rise to certain challenges that need to be addressed in order to reap its benefits.

II Defining the key word AI

- i) Definition of AI
- ii) Evolution of AI

III How is AI a driving catalyst of new era of growth?

A- Use of AI to strengthen National security and military potentials
case in point: Russia and ~~the~~ Israel

B- AI enhances economic productivity
case in point: China use of AI in autonomous vehicles

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C- AI ensures rapid and uninterrupted financial and digital transactions
 case in point: e-commerce; digital payments

D- Use of AI in health sector for effective results
 case in point: ~~A~~ Precise Robotic-surgeons

E- AI promotes inclusive educational methodologies
 case in point: Personalized learning

F- Use of AI to increase agricultural productivity

G- AI helps to mitigate effects of ecological disasters
 case in point: ~~A~~ Google Flood Forecasting System

H- Use of AI in judiciary for fair and unbiased judgements
 case in point: Robot judge in ~~Est~~ Estonia

IV Implications of the expansion of AI on the World:

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A- AI widens social inequalities

case in point: Global South vs Global North

B- Increases risk of data breach and surveillance

case in point: cyberattacks

C- AI contributes to environmental degradation

case in point: Carbon Footprints

V Pragmatic measures to ensure effective use of AI for inclusive growth:

A- Ensuring ethical development and ~~reg~~ framework regulation of AI

B- Promoting AI education, training, and skills among all users

C- Developing bias detection and mediation tools

VI Conclusion

In the year 2023, a small village in India faced severe drought and food insecurity. Instead of waiting for government aid, the farmers sought help from a free AI-regulated mobile app. The app provided information about weather forecasts and soil conditions; thus, helping the farmers when and where to farm. In the first season, not only the quality of the crops improved, but also the productivity increased by 30 percent. It goes without saying that AI has become essential part of new era of growth. For example, AI is widely used in strengthening national security, increasing economic productivity, and promoting fair and transparent financial transactions. Moreover, the growing progressive role of AI in social sectors, such as health, education, and environmental conservation is undeniable. However, like other technological revolutions, AI revolution too comes with several drawbacks. Rising social inequalities, data breach, and surveillance

are attributed to AI. Therefore, AI is a growing catalyst in the political, social, and economic progress, unleashing a new era of growth. However, despite its immense contributions, it gives rise to certain challenges that need to be addressed in order to reap its benefits.

Artificial Intelligence is the capacity of a digital computer or computer-controlled robot~~re~~ to carry out actions often associated with human intellectual. It is the study of how to make computers do things, which, at the moment, people do better. According to computer scientist, McCarthy, "It is the science of making intelligent machines, especially intelligent computer programs." However, the concept of AI is not modern. It date back to 1950 when Alan Turing invented Turing Test. Then in the 1960s, the computer chatbot, ELIZA, was created; in 1970s, a chess computer named IBM deep blue was created which defeated the world chess champion. Moreover, at present several AI-platforms, such as Siri and OpenAI are

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are performing human like tasks. All these new innovations in AI are improving day by day and are paving the way for a new era of growth.

Artificial Intelligence has unleashed an unprecedented era of growth by making significant progress in all political and socio-economic domains. Among the contributions of AI, its usage in strengthening national security and military potentials tops the list. Amid rising geopolitical tensions among states, national security and military potentials are of paramount importance. The inclusion of AI in security apparatus helps to identify security threats, reduce response time, and outpace the enemy. For example, the use of AI helped Israel to trace and kill Hamas senior leadership in different regions of the World. Moreover, the incorporation of AI in air defence system gave an edge to Russia and Pakistan in downing Ukrainian drones and Indian fighter jets respectively. Hence, AI shapes the defence and security of any nation.

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In the same vein, AI enhances economic productivity by reducing production time and deformities. In the ancient time, factories were operated ~~by~~ manually, thereby increasing the chances of errors, cost production, and poor quality. However, production machines today ^{that} are operated by AI ~~that~~ are more effective and efficient. According to a report titled "AI in Industries" by World Bank, industries that adopted AI in their operation reduced their production cost by half and increased their productivity by 35 percent. Furthermore, the primary reason behind China's low-cost exports is due its embracing of AI in production sector. China produce the greatest number of AI-monitored autonomous vehicles globally. Hence, the rise in the quality and quantity of economic productivity is due to AI.

Moreover, AI plays a vital role in ensuring rapid and uninterrupted financial and digital transactions. AI monitors, regulates, and

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ensure fairness and smooth transactions. Additionally, it detects fraud, scam and money laundering.

In the modern era, all the global financial chains are regulated by AI; thus, it helps to easily detect large sum of funds money going to non-state actors. Additionally, most of the e-commerce platform, such as Amazon and Alibaba operate under AI. ~~which~~ This protects the large digital firms from cyber and financial fraud. Therefore, AI promotes transparency in online transactions.

Apart from these, AI role in revolutionizing health sector is undeniable. AI assists health professionals in early diagnosis of various diseases. For example, AI tools like Google AlphaFold predicts 3D protein structure and diagnosis of ~~pro~~ Alzheimer's disease. Moreover, AI-powered robot surgeons are widely used to carry out precise and effective surgeries which are too risky to be done manually by surgeons. No doubt, AI in health sector is performing tasks which are deemed impossible to be carried out by doctors.

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Similarly, AI is greatly used in modern education programs and teaching methodologies. With the progress in AI, education sector is witnessed drastic changes, especially in its quality, effectiveness and accessibility. For instance, Learning platforms and apps provide services twenty-four seven. AI tools like ChatGpt and Deepseek offer accurate and precise information. Moreover, another significant contribution of AI is offering Personalized Learning opportunity. This means tailoring learning experience to each individual's need, abilities, and interests. Additionally, some of the clerical tasks, such as attendance and progress reports which were once done by the professors, are now performed by AI. It is led to reduction in biases, harassment and undue favours at universities. Therefore, AI is the leading driver in educational progress.

Furthermore, AI also contributes to agricultural productivity. The incorporation

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of AI in agriculture has showed positive results. The farmers across the world use free or cost effective AI apps to learn about productive farming. To illustrate, AI helps the farmers about the weather forecasts, soil conditions and seed quality. AI suggest the illiterate farmers when, where and what to plant. Furthermore, several researchs indicate that AI has proved to be a blessing for the people associated with agriculture.

In addition, altered seeds, modern farming techniques and irrigation methods are being developed with the help of AI. Ergo, AI is shaping the future of agriculture.

In the same way, AI is revolutionizing environmental disaster prevention by enhancing prediction, mitigation, and response. There are several AI tools in the market that predicts extreme weather patterns and events like flood, droughts, and wildfires. Moreover, AI is also used to purify the air, reduce global warming, and

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optimize renewable energy sources. For instance, IBM's Green Horizon Project of China uses AI predict air pollution levels and identify pollution sources. Similarly, Google Flood Forecasting System uses AI to give early warning about floods. Hence, AI is vital for environmental protection.

In addition to agriculture, AI's progressive role in delivering speedy and fair justice is noteworthy. Most of the time, judiciary across the world has been blamed for giving biased, unfair, and slow justice. However, judiciary has made great progress because of inculcating AI in judicial processes. For example, the appointment of a robot judge in Estonia is positive step. Similarly, many other countries are also taking measures to use AI in delivering justice. Therefore, AI is one of the best tool to make judiciary independent.

Although Artificial Intelligence

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is a driving catalyst for the progress of the world, this technology comes with certain challenges that impede the inclusive growth of the world.

Among several negative implications of AI, the fear of widening social inequalities top the list.

AI is not ^{equally} accessible to all the people. And secondly, AI requires skilled and educated users to operate.

It is argued by Intellectuals that like industrial revolution, AI will also prove to be a blessing for a certain dominant group of people. This view can be proved by analyzing the widening inequalities between Global south and Global

North. People in the northern regions of the world are well educated,

skilled, and ^{are} financially much stronger than their counterparts in southern

regions; therefore, only a ^{few} selected people are fully reaping the fruits of AI.

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Another drawback of AI is the increase risk of data breach and surveillance. AI regulated platforms are prone to cyberattacks and data ~~theft~~ theft. They are easy to be hacked by enemy and non-state actors. For example, on September 22, a cyberattack caused major airport disruptions in Europe. According to European Union Agency for Cybersecurity, the hackers hit automated check-in system. In addition to this, Pakistan Telecommunication Authority (PTA) reported that 180 million internet users' ^{data} in Pakistan were stolen and sold on dark web. Hence, Privacy violation is a major concern of AI.

Apart from this, AI also contributes to environmental degradation through various means. AI tools are made up of rare earth metals whose extraction disrupt the ecological landscape. Moreover, AI chatbots require lots of energy and water to work effectively. AI machines release

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Large amount of greenhouse gases that contributes to global warming. According to United Nations Environment Programme, ChatGPT uses approximately 519 milliliters of water for generation of only 100 words. Therefore, AI poses serious environmental concerns.

After having discussed the negative implications of the expansion of AI, it is imperative to suggest pragmatic reforms to ensure inclusive growth of AI. First of all, the global community must develop ethical rules and framework regulation of AI. At present, there exist no globally acknowledged regulatory framework for AI. Moreover, AI users often violate ethical values as there does not exist any set boundary. Hence, regulation of AI is must to reap its benefits.

Secondly, promotion of AI education, training, and skills is equally

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among all the users is required to make AI an inclusive driving catalyst of growth. In certain regions of the world, people are deprived of the prospects of AI as they lack the skills and training to effectively utilize AI. Therefore, Education and training is very important to address the concerns of AI related to growing inequalities.

Thirdly, developing bias detection and mediation tools is need of the hour. AI tools have often been criticized from promoting racial, religious, and gender biases. Additionally, AI tools are used to promote hatred, violence, and ~~propanda~~ propaganda against particular groups. Thus, ensuring fairness and transparency ^{in AI} is important for growth.

To conclude, AI is the most significant tool driving the dynamics of modern era of growth. Its contributions in different domains, such as politics, economics,

and social sectors are unprecedented. Additionally, its scale in ^{revolutionizing} health and education deserves praises. However, despite its benefits, it raises some challenges which must be addressed in order to make AI a cheap, inclusive and progressive tool. The future of AI lies at the hands of the people. If used wisely, it will unleash an era of growth; surpassing all the previous technological revolutions.

Precis-2024

In urban areas, green spaces like

Parks offer ~~a~~^a skip from the busy life of the city. City parks provide a wide range of prospects, such as making community bonds stronger and offering mental peace amid the busy city life. They bring people together from diverse backgrounds for various activities like family gatherings, sports, and concerns. Moreover, they also play a role in improving environmental conditions. The challenges in maintaining a balance between growing urbanization and preservation of ecological landscape can be achieved by promoting sustainable urbanization like planting and preserving green spaces.

Total words: 241

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Attempted: 88

Title:

**Role of Green Spaces
in Urban Cities**