

# India's G20 Presidency and Artificial Intelligence

Dr Smita Tiwary Ojha<sup>1\*</sup>, Mr Aditya Ojha<sup>2</sup>

<sup>1\*</sup>Amity University, Email id: [smitaditya123@gmail.com](mailto:smitaditya123@gmail.com) ORCID ID:0000-0003-3644-1169 Google scholar id:  
<https://scholar.google.com/citations?hl=en&user=ewPIDWAAAJ>  
<sup>2</sup>Amity University, [shivadityaojha7638@gmail.com](mailto:shivadityaojha7638@gmail.com)

## Abstract

The main objective of this article is to highlight the outcomes perspectives of G20 in relevance to use of Artificial Intelligence in various sectors. The descriptive analysis of the information available from various authentic sources will be studied. The article highlights the G20 summit in India, AI pros and cons and other related aspects in reference to India, with relevant case studies.

**Key Words:** G20, Artificial Intelligence (AI), Chat GPT

## Introduction

The G20, or Group of twenty, is a forum for governments, central bank governors, from 19 countries, and the European Union (EU). The G20 was established in 1999 as a means for leaders from the world's largest economies to come together and discuss key economic and financial issues. The G20 is a forum comprising 19 countries with some of the world's largest economies, as well as the European Union. The countries are Argentina, Australia, Brazil, Canada, China, France, Germany, India, Indonesia, Italy, Japan, Mexico, Russia, Saudi Arabia, South Africa, South Korea, Turkey, The United Kingdom, and the United States. Spain is invited as a permanent guest. G20 matters because together, the nations of the G20 account for around 80 percent of global economic output, nearly 75 percent of global exports, and about 60 percent of the world's population. The G20 plays a significant role in shaping global economic policy, and its member countries work together to promote growth and stability in the global economy. The G20 also addresses a range of other global issues including climate change, financial regulations, anti-corruption, and development. The G20 leaders in the summit usually discuss and agree on important statements and communiqués outlining their positions and common goals. G20 also has different formats of engagement with stake holders such as business, civil society, think tanks, academics etc. to ensure the broader impact and diverse perspective on the G20 agendas. As the 2023 host, India is framing the agenda around issues facing lower-income countries in global south. These include rising debt levels, persistently high inflation, depreciating local currencies, food insecurity, and increasing severe weather events associated with climate change. India hosted Global partnership on AI. [India hosted Global partnership on AI](#). AI involves emulating human intelligence to make decisions and develop a skill to solve problems more efficiently. India the jewel of the global partnership on artificial intelligence GPI successfully hosted the GPS summit from December 12 to 14/20/23 at the Bharath mandapam in New Delhi. The primary aim was to ensure a collaborative and participatory approach steering AI to enhance governance and transform lives while building global partnerships and actively shaping the world's technological landscape. The theme of the AI summit 2023 was advancing responsible AI in public sector applications. The 2024 AI for code global summit aims to identify practical applications of artificial intelligence AI to accelerate progress towards the SDG's and scale solutions for global impact. Is systematic development a workshop entitled economic and social mobility held as part of the activities taking place on sidelines of the second global AI submit. Organized by Saudi data and artificial intelligence authority SDAIA under the theme countries such as India UK US and China have agreed to collaborate to protect against the potential harm caused by artificial intelligence AI. AI for the good for humanity.' One of the central aims of AI is to develop systems that can analyze large data sets identify patterns and make data-driven decisions. This ability to solve problems and make decisions efficiently is invaluable across various industries from healthcare and finance to transportation and manufacturing. Father of Indian AI is often attributed to Dr Raj Reddy. He is the first person of Asian origin to receive Turing Award, often called the Nobel Prize in computer sciences. He is a renowned computer scientist and academician who made significant contributions to the field of artificial intelligence in India.

## Artificial Intelligence

The simulation of human intelligence processes by machines, particularly computer systems, is called Artificial Intelligence. Artificial Intelligence includes processes involving learning and acquisition of learning rules and regulations, reasoning using rules to achieve exact conclusions and self-correction or self-management in diverse situations. The General AI would have the ability to understand, learn and apply knowledge in various situations involving human cognitive abilities. Similarly, the Narrow AI is designed to perform specific tasks like Siri, Alexa etc. AI is used to enhance natural language processing, robotics to health care system, improved decision making in diverse situations and raises ethical concerns including job replacement, privacy concerns and biases. AI is continuing in advance stage progressively. Still a lot must be done to increase the ethical use of AI and stop misuse of it. Moreover, the use of AI should be carried out to various other untouched issues and processes of society.

### **India and its Initiative for Green Technology**

Developing green technologies are one of the most important concerns of India for sustainable development and to meet environmental challenges. Some of the key initiatives that enhances sustainability and green technologies by India are: NAPCC- National Action Plan on Climate Change: Launched in 2008 outlining various strategies and policies to mitigate climate change and adapt to the environmental hazards and impact.

ISA- International Solar Alliance: Along with France in 2015, India co-founded it to promote solar energy incorporating globally, especially in countries lying below the Tropic of Cancer and Tropic of Capricorn.

JNNSM-Jawaharlal Nehru National Solar Mission- launched in 2010, promotes increase of solar energy mix through various incentives, subsidies, and capacity-building measures.

There are much more initiatives by India in the field of developing green technologies. But the unique initiative in the 2023 by India was the appropriate use and development of AI in India and other global south countries.

### **AI & and Future Agenda for Global South countries**

The development of AI has unique challenges in adoption in South Asian countries due to less advancement in internet facilities especially in remote areas, electricity connection and appropriate use of AI. The global south has adopted AI tools to address traditional developmental challenges. As most of the south Asian countries are still at developing stage, and still fighting to be acquainted with basic amenities for all, AI can be used to provide such basic amenities efficiently. But this requires the World forum to invest more in the field of AI to meet this requirement for the benefit of upliftment of humanity. In this regard G20 summit has laid remarkable foundation towards achieving acceptance of use of AI in various aspects, especially in South Asian countries. First, investing in the education system to create skilled workforce for developing and enforcing AI is very crucial and it can be achieved through proper training to professionals. Apart from that, health care systems, agriculture sector and communication sector can benefit by incorporating AI, which in turn be going to rise the quality of life of the people and humanity too.

### **Discussion and Analysis:**

AI has significant potential here to provide innovative, technology-based solutions. For e.g. AI can improve energy efficiency, reduce waste, and monitor and predict the effects of climate change. AI is also advantageous for analyzing big data to identify patterns and insights that can inform decisions related to social advantageous for analyzing big data to identify patterns and insights that can inform decisions related to social and economic issues, such as poverty and inequality. AI powered automation can help to increase productivity and economic growth while addressing unemployment related issues.

This technology offers huge potential for growth and projections indicate that AI will act nine \$67 billion to the Indian economy by 2035 and 450 to \$500 billion to the country's GDP by 2020 this accounting for 10% of the countries\$5 trillion GDP target India.

By 2050 robotic prosthetics may be stronger and more advanced than our own biological ones and they will be controlled by our minds. AI will be able to do the initial examination, take test do X-rays and MRI's and make primary diagnosis and even treatment.

The World Economic Forum has estimated that artificial intelligence will replace some 85 million jobs by 2025. The World Economic Forum has estimated that artificial intelligence will replace some 85 million jobs by 2025. Forbes says that the future of AI brings endless possibilities and applications that will help largely simplify our lives. It will help shape the future and destiny of humanity positively, whilst Bernard Marr & Co says that the transformative impact of artificial intelligence on our society will have far-reaching economic, legal, political, and regulatory implications on all types of jobs and industries that we need to be discussing and preparing for. Others in the know say that AI has the potential to bring about numerous positive changes in society both now and in the future, including enhanced productivity, improved healthcare, and increased access to education. AI-powered technologies can also help solve complex problems and make our daily lives easier and more convenient. Artificial intelligence offers great promise to drive businesses forward, automate manufacturing processes, and deliver valuable insights. AI is increasingly being used across various industries, including logistics, manufacturing, and cybersecurity. Small businesses have also made rapid progress in creating speech recognition software for mobile devices. To stay ahead in the era of artificial intelligence, it is essential to embrace lifelong learning, develop soft skills, be agile, and specialize in a particular area. By developing these skills and adapting to the changing job market, workers can thrive in the era of AI and take advantage of the opportunities it presents.

Currently there are no specific laws in India regarding regulating AI. In fact, IT minister Ashwini vachana recently informed parliament that the center is not planning to regulate the growth or set any laws for AI in the country. India is setting its foot in the AI industry. AI has emerged in almost every sector and in no time, it will become an integral part of the workforce. Presently the need for AI professionals with the required skill set is more than ever in the market thus making it the best time to learn this technology. AI policy is the set of government actions to expand the benefits of AI technology in society while minimizing the potential risks and costs, as well as the ethical and regulatory concerns

surrounding this technology. In the current stage, the race for the development of AI technologies is justified by the construction of digital sovereignty and the reduction of geopolitical risks of countries' dependence on technology.

CHAT GPT is owned by open air, launched on November 30, 2022. By the first anniversary, the application had notched up over 180 million registered users. And AI focused research company that is backed by Microsoft. Chat GPT stands for chat generative pre trained transformer and was developed by an AI research company, Open AI. It is an artificial intelligence chatbot technology that can process our natural human language and generate a response. As GPT-4 launched in March 2023, boasts adaptability in tones, emotions, and genres and is available in 26 languages. As chat GPT became popular, several tools and apps have been developed to detect AI generated text. These include GPT Zero, zero GPT, GPT-2 Output detector. Several countries- among them Italy, Russia and China banned Chat GPT over fears that it will spread misinformation. Italy then reversed the decision.

Soundarya, Maya, Lisa, Sana are the AI TV anchors launched, who brought the day's headlines in English, Odia, Telugu, and other languages.

AI has changed our lives in 2023 in many ways. One of the biggest questions was how ChatGPT would fare in some of the world's toughest exams. While the chatbot triumphed in tests such as the Wharton MBA exam, US Medical licensing exam, and Law school exams at the University of Minnesota, it couldn't clear the UPSC Civil service prelims, falling way short of the 84% cutoff in the general category, sparking a humorous meme fest among netizens.

Chat GPT is an artificial intelligence chat port that uses natural language processing to create human life conversational dialogue. The language model can respond to questions and compose various written content including articles social media posts. In the ever-evolving landscape of technology one skill has emerged as the shining star. Artificial intelligence with its massive tech workforce India has taken the lead in the AI skills race.

Existing copyright laws do not seem adequately equipped to provide copyright registration or protection from AI generated works in India nor do this specifically acknowledge AI as an author. Even ChatGPT itself acknowledges the complexity of content ownership under Indian law where it comes to AI generated materials., a New Delhi based venture is quietly revolutionizing nutrition in Etapalli, a remote block.

Few stories on the new high tech from the densely forested heartlands of India, at the border of Maharashtra and Telangana, is a true example of innovative startup weaving a tale of transformation are as follows.

Udyog mantra A pilot project started in one school in the block has an AI enabled machine built by the startup. It takes photographs of young children with their plate of midday meals. Without any human intervention, the machine assesses the quality of the food in line with the specific nutritional requirements of the child. This has helped the district administration identify not only malnourished children but also critical nutrients lacking from meals, as well as quantity and quality issues. This is just one stellar example of how the benefits of cutting-edge reaching grass roots. Through the AI-powered Bhashini application, GOI is helping citizens access digital services in over 121 Indian languages. The PM KISAN scheme now has an AI chat-bot, which will be available in 22 languages and will assist and empower farmers.

AI is an opportunity and not a threat if used properly. The world is gripped by anxiety around AI disrupting the job market as it stands. Yuval Noah Harari, a renowned author and historian has said that it's a catastrophic risk- economic, social, political- but by itself, he wouldn't describe it as existential without global cooperation, it will be extremely difficult, if not possible, to rein in the most dangerous potential of AI. Noam Chomsky has also said that Chat GPT is basically high-tech plagiarism and a way to avoid learning. Students using high technology to avoid learning is a sign that the educational system is failing. Several deepfake controversies were reported this year that involved celebs. A recent study conducted by Graphika, a social media analytics firm, found that websites that used AI to undress people especially women received 24 million unique visits in September alone. There are rising fears that deepfakes will be used to create pornographic content. This avatar would engage in discussions on many things, from future goals to sexual desires for \$1(Rs 83) per minute. The bot named Caryn AI has reportedly claimed to have more than a thousand boyfriends. When misused, AI can be used to make decisions that discriminate against certain groups of people, such as those based on race, gender, age, or other protected characteristics. It can also lead to collecting and analyzing personal data without knowledge or consent of the individuals involved, violating the privacy laws and regulations. Ai can also be used to manipulate, exploit, and deceive customers if not monitored properly. It is crucial for firms to be aware of these potential India has given its success in taking technology to the last mile, can turn this into an opportunity. AI can reshape India's economic landscape. We have the richest demographic dividend and the highest penetration of AI talent in the world. India's workforce must be equipped with the right skills to ride and rise with the AI wave. In a recent survey covering over a thousand Indian employers, an astounding 85% of organizations predict that AI will generate new job opportunities in the next 5 years and enhance the quality of jobs. Additionally, 77% of employers believe AI will boost job security and career development. According to the job platform, 63 percent of jobseekers are also excited about the potential impact, with 53 percent agreeing AI is likely to create more jobs. This sentiment is shared by the workforce, with job seekers expecting AI to increase work efficiency, aid in skill development, enable complex problem solving, and prioritize employment based on skills over experience. A study by Service Now and Pearson forecasts that by 2027, a remarkable 16.2 million workers in India will be reskilling and upskilling to keep pace with technology. The study highlights that this technological wave is anticipated to generate over 4.7 million new technology jobs. It is crucial to recognize that the transformative influence of AI extends far beyond

the technology sector, equalizing opportunities across various fields like healthcare, education, manufacturing retail and banking.

AI focused entrepreneurship is the other growth area. From just 18 AI centric startups I 2021, there are 60 plus generative AI startups in India in 2023. Millions of dollars of investment have flown in. DeHaat is providing agricultural finance solutions to farmers. Art Park is a nonprofit driving technology milestone in AI and robotics for social good. Atom360 is working to make healthcare affordable and accessible to all. DeHaat, an online platform that offers full-stack agricultural services to farmers in India, has raised \$115 million in what is the largest funding round for an agrotech startup in India, where farm produce yields two-thirds of the country's \$1 trillion in annual retail spending. The startup, which runs a helpline to engage with farmers, also operates an eponymous Android app that is accessible in multiple languages. DeHaat said it serves over 650,000 farmers in Bihar, UP, Jharkhand and Odisha. On its platform, it offers more than 850 unique agribusinesses.

AI and automation will see large scale integration into several aspects of workforce management for a unified experience. With apps for every operational event, continuous churning of data for drawing actionable talent insights periodically at shorter frequency will be explored across the talent life cycle. The pace of digital transformation combined with new age talent configuration have been shaping up the workplace needs of the future. In 2024, we will continue to see many changes becoming a norm because of large-scale adoption by digital natives and organizational policies. The impact of automation, AI, machine learning and Gen AI will be seen more than ever as the rate of adoption accelerates.

Conclusion- As India deploys AI, India will need more AI experts. It is also important to note that AI can create new problems if not used responsibly and ethically. In 2020, India reiterated the importance of protecting its citizens and ensuring that digital platforms become more trustworthy, safe, and secure. It also acknowledged that digital platforms must become accountable and responsive to the sovereign concerns of countries, including defence, privacy, and security of its citizens. The lack of digital and financial literacy continues to hamper the adoption of digital financial services.

In conclusion, the analysis of G20 countries national AI strategies provides insight into the various approaches' governments are taking to support the development and deployment of AI. The official documents and strategies review reveals that all G20 countries have recognized the potential of AI to drive economic growth and have developed strategies to support its development. However, each country's strategy has a different focus and priorities, depending on factors such as the current level of development of their ai industry, the specific challenges and opportunities they face, and their overall national priorities. As India deploys AI, India will need more AI experts. Roles such as data scientists, machine learning engineers, AI researchers, and algorithm developers will become the jewels of the job market. The emergence of 'prompt engineers' a term that was virtually non-existent a few years ago, is a great example of new jobs. These experts, adept at harnessing the potential of large language models, have rapidly ascended to become highly sought after professionals in today's job market. This time we are better prepared to be at the helm of the approaching revolution. India has the capability to become the world's premier incubator for exceptionally skilled AI workers. The future of work will see an explosion of unprecedented proportions of gen AI applications. Both employees and organizations are receptive yet anxious of the extent to which gen AI can displace current job roles and create future ones. The future is going to be exciting for HR practitioners who will see a shift in priorities, not just limited to acquiring new age skills but also overseeing large scale adoption of gen AI across employee life cycle. The pace of digital transformation combined with new age talent configuration have been shaping up the workplace needs of the future. AI has the potential to affect the way of doing business directly/indirectly in the future. More studies are needed in this respect to portray the role of AI in strategic management. Marrying human intelligence, creativity and innovation with AI will be the key for sustenance in an AI enabled world. Moving forward, governments in global south must invest in local researchers and integrate digital skills training into education curricula, and countries that have dominated the AI conversation must include global south countries in roundtables and advisory bodies.

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