

EVA STALIN IAS ACADEMY - BEST IAS COACHING IN CHENNAI

12/24, Muthurangan Muthali St, West Tambaram, Chennai - 600045

<https://www.evastaliniacademy.in/>

Contact Number - +91-8678969915, +91-9940332851

AI's disruptive economic impact, an India check

Little did we know that beyond the automated factory machines, self-driving cars, and robocops, Artificial Intelligence (AI) would one day crash into our lives, authoring poems, tipping us with pickup lines, and passing the toughest examinations. The recent rise of Large Language Models and Generative AI has sparked more interest in the progress of AI across the globe. ChatGPT was running with its servers crammed for months, and Twitter feeds were filled with quirky ChatGPT quotes followed by threads shedding light on the versatile application of such chatbots. Ethical debates on the use of generative AI have subsided in the realisation that users will have a 'productivity-powered' upper hand over a non-user. The subjects of worker replacements and economic growth with the rise of AI have entered the spiral that the Internet once went through.

Positive effects of AI adoption

There is broad consensus on increasing productivity by adopting AI in producing goods and services. In a study called "Generative AI at Work" (involving over 5,000 customer support agents in the Philippines), Massachusetts Institute of Technology (MIT) economists showed that AI tools boosted worker productivity by 14% and improved consumer satisfaction, leading to better treatment of customer service agents and increased employee retention. Experts suggest that generative AI may not replace employees, but employees using generative AI will replace those who do not upskill.

A recent survey among employees of LinkedIn's top 50 companies in the United States shows that almost 70% of them found AI helping them to be faster, smarter, and more productive. Another 32% were of the opinion that while AI's current impact may be modest, they anticipate larger gains over the next five years. Professor Erik Brynjolfsson of the MIT suggests that restructuring business processes and increased investments are essential to fully leverage AI's productivity potential.

Research from across the world is also largely optimistic about AI's impacts on growth. A study by PricewaterhouseCoopers (PwC) predicted an increase in global GDP by 14% or \$15.7 trillion by 2030 due to ongoing technological advancements in AI. Further, a report from Goldman Sachs Research in April 2023 said that generative AI alone could raise global GDP by 7% or almost \$7 trillion over a 10-year period. The report highlights generative AI's potential to create human-like output and that its ability to break down communication barriers between humans and machines could have large positive macroeconomic effects.



Santosh Kumar Dash

is an Assistant Professor at the Institute of Rural Management Anand (IRMA), Anand, Gujarat



Sidharth R.

is a Research Associate at the Centre for Development Studies, Thiruvananthapuram

With Artificial Intelligence (AI) becoming an integral part of the global economy, India should focus on education and training in AI, rather than its regulation

The Forum for the Kent A. Clark Center for Global Markets surveyed and published the views of U.S. and European economic experts on the impact of AI on the per capita income of the U.S. and western Europe. On the question whether AI will result in a substantial increase in the growth rates of real capita income in the U.S. and western Europe over the next two decades, 44% of the U.S. experts agreed to an expected substantial increase, whereas 46% said the effects were uncertain. Among the European experts, 34% expected a substantial increase in GDP per capita, while 42% were uncertain about the effects of AI. Only 2% of experts believed that AI would not significantly impact per capita GDP; this included Professor Nicholas Bloom of Stanford, who pointed out historical data on slowed GDP growth despite technological advancements. On another question of whether a ban on generative AI chatbots could negatively impact national innovation, 62% of the European experts agreed that a ban could hinder innovation, 14% were uncertain, and only 2% disagreed.

Employment may be adversely affected

Experts also point to multiple negative impacts of AI technologies. The first is labour replacement that AI technologies bring to the table. AI can automate repetitive tasks and with generative AI, even creative tasks can be done efficiently and fast. A research paper titled "Robots and Jobs: Evidence from US Labor Markets" by Daron Acemoglu of MIT and Pascual Restrepo of Boston University found that robot adoption has a negative effect on workers, on average – it reduces the labour share, employment and wages. These adverse effects primarily affect blue-collar workers and individuals with lower levels of education.

In "Tasks, Automation, and the Rise in U.S. Wage Inequality", the two authors document that between 50% and 70% of changes in the U.S. wage structure over the last four decades can be attributed to relative wage declines of worker groups specialised in routine tasks in industries experiencing rapid automation. Acemoglu argues that automation reduces labour share and wages, especially when productivity gains from automation are small. His other studies also highlight distributional concerns over automation, causing inequality among workers and possible serious negative impacts on social welfare. A European Parliamentary Research Service report cites McKinsey Global Institute's research that suggests that AI may intensify competition and deepen the technological divide among firms. Early adopters of AI may gain significant advantages, leading to a winner-takes-all scenario.

The *Guardian* puts forward the idea that AI could be highly disruptive as it is more likely to displace middle-class, white-collared jobs; in comparison, earlier technological advancements displaced people from lower-paid farm jobs to higher-paid factory floor jobs. Analysis by Goldman Sachs has suggested that 15%-35% of work in the U.S. economy is exposed to automation. Still, the finance giant also puts out numbers to show how this may not adversely affect the labour market – "60% of workers today are employed in occupations that didn't exist in 1940, implying that over 85% of employment growth over the last 80 years is explained by the technology-driven creation of new positions" – hinting at the possibility of AI creating more jobs than on how much it displaces. But surely, no inferences can be yet derived on how each upgrade impacts the labour market.

Opportunities for India

India, being the most populous country, should be on the lookout as any net negative effect on employment can adversely impact the economy. Increased efficiency by the adoption of AI in call centres and software industries does not bode well for millions of Indians who work in the field. Regulation on the use of AI is not a bright solution as this would just drive investments and new opportunities away. The PwC report suggests that the greatest economic gains from AI will come from China, with a projected 26% boost to GDP by 2030. Thus, it would be prudent for India to focus more on education and training in AI; this could be a lot easier now with online education having larger acceptance after the COVID-19 pandemic to take advantage of the demographic dividend and new opportunities that emanate from AI.

AI has seeped into every aspect of the global economy, and its effect on productivity and growth is being seen in an optimistic way. Views on the effect of AI on the labour market and its impact on society are gloomy, with 70% of American experts in an IGM survey agreeing that AI could create deep challenges for society, including in the labour market, politics, data privacy, crime and warfare; these challenges are difficult to anticipate and plan for. Governments would have to step up their cyber regulations with respect to the new challenges posed by AI and may also need tax capital, as suggested by many experts, to balance the returns from capital and labour to reduce the displacement and distributional effects. Either way, ever-growing advancements in AI are now a reality and equipping ourselves with the latest tools will help us forge ahead along with everyone else.

And no, an apocalypse where robots take over the human world is nowhere soon.

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Women's reproductive autonomy as the new catchword

The theme of this year's World Population Day, i.e., 'Unleashing the power of gender equality: Uplifting the voices of women and girls to unlock our world's infinite possibilities', could not be more apt for India. When we unlock the full potential of women and girls, encouraging and nurturing their desires for their families and themselves, we galvanise half the leadership, ideas, innovation, and creativity available to societies. In India, the world's most populous nation, the template for women-led development, be it in science, technology, agriculture, education or health care, must also include reproductive autonomy at its core.

For far too long the world has been obsessed with population numbers and targets. Instead of ensuring reproductive autonomy for each woman, we are obsessed with total fertility rates; instead of ensuring that family planning services reach all those who want it, we are obsessed with what the ideal population size of a family, a community, a country and even the world ought to be. It is important to understand that there are no ideal numbers or figures.

Population stability comes when reproductive and sexual health decisions are free of discrimination, coercion and violence, that reproductive and sexual health services are affordable, acceptable, accessible and of high quality, and that women and couples are supported to have the number of children they want, when they want them.

Much progress

On World Population Day (July 11), India deserves to be commended for its family planning initiatives, where despite the many challenges, the aim is to provide an increasingly comprehensive package of reproductive health services to every potential beneficiary – with a focus on the provision of modern short and long-acting reversible contraceptives, permanent



Andrea M. Woinar

is Representative
United Nations
Population Fund
(UNFPA) India, part of
Team UN in India,
and Country Director,
Bhutan

Families and communities prosper when women have the power to make choices about their bodies and lives

methods, information, counselling, and services, including emergency contraception.

India's commitment towards the Family Planning 2030 partnership includes expanding its contraceptive basket. The inclusion of new contraceptive options advances women's rights and autonomy, leading to a spike in modern contraceptive prevalence. Access to timely, quality and affordable family planning services is crucial because unspaced pregnancies may have a detrimental influence on the new-born's health as well as major effects on maternal mortality, morbidity, and health-care expenditure.

The Indian government's health, population and development programmes have shown steady progress over the years. Life expectancy at birth has significantly increased in the country over the years. Compared to the 1990s, Indians are currently living a decade longer. In terms of maternal health, India has made impressive strides. The current rate of maternal mortality is 97 (per 100,000 live births in a year), down from 254 in 2004. Another triumph of these programmes is gender empowerment. Since the beginning of 2000, India has cut the number of child marriages by half. Teen pregnancies, too, have dramatically decreased. Access to vital services, including health, education, and nutrition, has also improved.

No physical autonomy

However, this progress has a fine print too. Many women continue to lack physical autonomy. According to the most recent National Family Health Survey (NFHS-5), just 10% of women in India are independently able to take decisions about their own health, and 11% of women believe that marital violence is acceptable if a woman refuses to have sex with her husband. Nearly half of all pregnancies in India are unplanned, as they are globally.

Advancing gender equality is not just about

women but also about populations as a whole. In ageing societies that worry about labour productivity, achieving gender parity in the workforce is the most effective way to improve output and income growth. And in countries experiencing rapid population growth, women's empowerment through education and family planning can bring enormous benefits by way of human capital and inclusive economic development. More importantly, the focus on gender equality helps shift the focus away from the notion of 'population stabilisation' to 'population dynamics' based on reproductive choices people make.

India has a significant opportunity to advance gender equality and grow its economy. In fact, raising the women's labour force participation by 10 percentage points might account for more than 70% of the potential GDP growth opportunity (\$770 billion in additional GDP by 2025).

The investments needed

The path to such a bright future is clear. Focusing on gender equality-centred growth, rights, and choices promises to help all achieve their aspirations. Gender equality can be ensured by making investments in a woman's life at every stage, from childbirth to adolescence to maturity. Engaging with women, girls and other marginalised people and formulating legislation and policies that empower them to assert their rights and take life changing personal decisions are the first steps in this direction.

World Population Day this year is an opportunity to reaffirm our commitment to putting individual rights, particularly women's rights and well-being, at the centre of the population and development discourse. Gender-just approaches and solutions are the fundamental building blocks of a more prosperous India, and indeed the world.