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The Evolving Influence of Artificial Intelligence on Society, Business, Education and Sustainable Development

Vivek Bhargava, Manasvi Ghorpade, Prof. Dhananjay Bhavsar, Harpreet Singh Grewal,

Pavan Kumar, Gaurav Nangare, Sourabh Banjare, Shubham Patel

Dnyaan Prasad Global University School of Management & Research, Pune, Maharashtra, India

ABSTRACT: In today's era, AI (Artificial Intelligence) is an indispensable part of life and is changing the working of various sectors-the society, the business, the education, and even sustainable development. The objective of this paper is to examine as to how AI is assisting in increasing the efficiency and also promoting better decision making and fostering innovation, besides tackling many global problems like climate change and efficient resource management. The applications of AI techniques, like machine learning and automation, are being widely applied in both business and education for rapid implementation of processes. Along with these many issues like privacy, ethics, unemployment remain unaddressed. The data was collected using primary research from college students via questionnaire and analysed with percentage analysis and graphical presentation. In essence this research suggests that there is considerable opportunity with AI; it just needs to be implemented strategically and ethically to support sustainable development.

KEYWORDS: Artificial Intelligence, Society, Business, Education, Sustainable Development, Automation, Machine Learning, Ethics, Data Privacy

I. INTRODUCTION

It means a machine or computation that can mimic humans in thinking behaviors including learning, reasoning, problem solving, sensing and decision making, etc. AI has grown from an obscure academic field to be the leading technology for almost all human applications in past one decade. AI is considered a general purpose technology to improve productivity and to make efficient and optimal decisions, enhance operating processes. It has a tremendous potential for solving "intractable problems" including global warming, health inequalities, and food insecurity. The convergence of big data, efficient algorithms and powerful computers has enabled rapid adoption of AI. In this paper, we discuss the influence of AI on the four spheres listed below: Social relations and community arrangements Business operations, supply chain and customer experience Education and individual learning Food supply chain, farming practices and distribution Health care and service provisions

Problem Statement:

The application of AI is rapidly expanding across business, society, education and the sustainable development sector, but there is a large disconnect between the reality of its use, ethical concerns and integration with sustainable development-particularly amongst youth. The lack of governance frameworks, unequal access, ethical deployment and standards for AI presents a severe risk of widening social disparities, privacy invasion, job displacement, and even defeating developmental outcomes of AI.

II. REVIEW OF LITERATURE

The OECD noted that the effects of AI have already started in the labor market, in societal values and in policy areas by showing the role that the AI based algorithms on the social media play in political discussion and civil liberties concerns (facial recognition and predictive policing).

Sulich et al. (2023) The authors of Sulich et al. Found that AI fosters sustainable development in the business environment. This study demonstrated how decision making in supply chains and operational performance indicators at



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an organizational level have improved through the adoption of AI. Singh (2025) The author found that in the years 2021-2025, AI-driven automation was fundamental for efficiency and sustainable business strategies in MNCs; this shows how much large companies' functioning was changed. Thamik (2022) This author provided evidence of AI applications in the area of sustainable development such as agriculture (precision agriculture), power supply system (power grid optimization) and carbon footprint monitoring (predictive models and satellite imagery analysis). Gohr (2025) Extending these observations, the author documented AI's contribution in climate modeling and various SDGs, providing additional arguments for the development-oriented characteristics of the use of AI.

Research Objectives:

1. To study the awareness and adoption of AI by college students and young professionals through primary survey data.
2. To explore the role of AI in social transformations such as social relationships, communication channels, civil liberties issues, and communities.
3. To investigate the impact of AI on education like personal learning, intelligent tutoring system, adaptive platforms, and auto grading.
4. To explore the challenges and issues related to adoption of AI such as data privacy, job displacement, digital divide, algorithmic bias, and misinformation.

The goals stated here directly correspond to the four thematic pillars of the paper, Society, Business, Education and Sustainable Development, which have also been tested by both primary survey (85% of college students and young professionals were aware of AI) and secondary literature form OECD, UNESCO, WEF and literature. The goals stated here directly correspond to the four thematic pillars of the paper, Society, Business, Education and Sustainable Development, which have also been tested by both primary survey (85% of college students and young professionals were aware of AI) and secondary literature form OECD, UNESCO, WEF and literature.

III. RESEARCH METHODOLOGY:

Research Design

The study follows a descriptive research design, by using both secondary and primary sources of information for drawing a broad interpretation regarding the evolving trends of AI in vital sectors.

Primary Data

Tool: Online questionnaire using Google Form with structured survey.

Target users: Students & Professionals in universities

Time frame for data collection: 2025-2026

Survey link: <https://forms.gle/rZiw17W5bvny9ytdA>

Secondary Data

Scientific journals (2019-2025)

Reports from organizations, such as OECD, UNESCO, World Economic Forum

Journals like 'Sustainability,' 'AI & Society,' and 'Journal of AI Research'

Data Analysis Tools

Percentage analysis on the survey answers

bar chart, pie chart and stacked graph as tool of illustration

qualitative content analysis of the results to support primary data.

Data analysis and graphical representation:

Survey responses overview

The table below summarises the main survey questions asked along with the breakdown of the response in relation to the primary study conducted in 2025-2026.



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Question	Yes (%)	No (%)
Are you aware of AI?	85%	15%
Do you use AI tools regularly?	70%	30%
Does AI help in education?	80%	20%
Does AI impact job availability?	65%	35%

Table 1: Response summary (first survey)

Graphical Analysis:

Here is a graphical representation of the responses to the main survey :

Figure 1: Survey Responses Overview

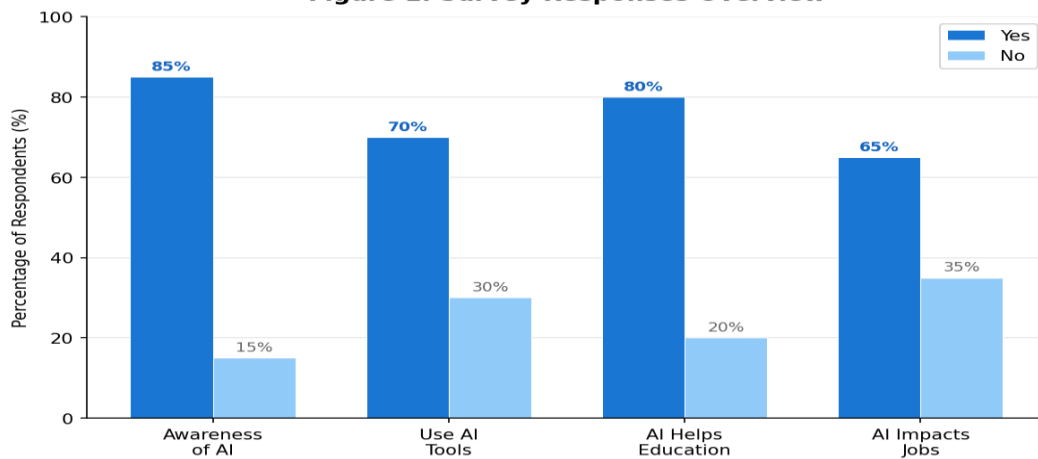


Figure 1: Responses in Survey - Awareness, Usage, Education & Job Effects

As depicted by the bar chart (Figure 1) almost all respondents know of AI (85%), only 70% use AI tools regularly. A substantial 80% think AI affects education in a positive manner, yet only 65% think it affects job availability in a negative manner



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Figure 2: Primary Domains of AI Usage Among Respondents

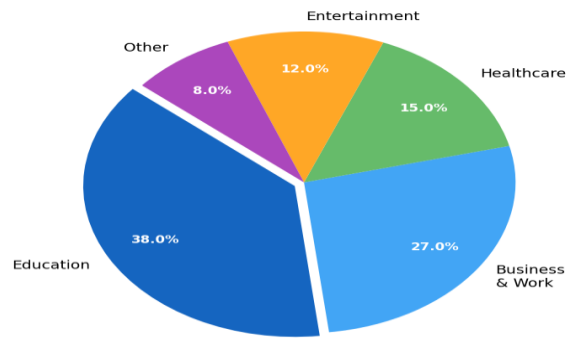


Figure 2. Main area of AI application according to survey participants.

As is obvious from the graph, education is the most frequent domain in which the survey participants use Artificial intelligence (38% of respondents). Second is business and work (27% of the respondents). Other applications include health (15% of the respondents), leisure time (12% of the respondents) and others (8% of the respondents)

Figure 3: Perceived Benefits of AI

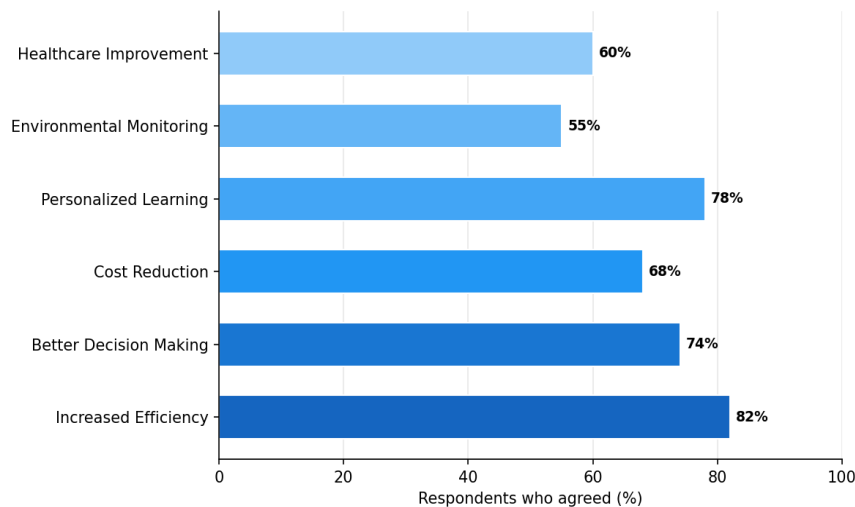


Figure 3: Perceived advantages of AI - % of Agreement by respondent

Figure 3 illustrates the students' opinions in terms of what constitutes the largest advantages of AI with a clear majority identifying increased efficiency (82%) and personalised learning (78%) as key benefits. Better decision-making (74%) and cost efficiency (68%) also score significantly high. Environmental monitoring (55%) and healthcare enhancement (60%) are found to have lower values, likely due to the students' lack of immediate impact or personal experience.



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Figure 4: Perceived Challenges of AI Adoption

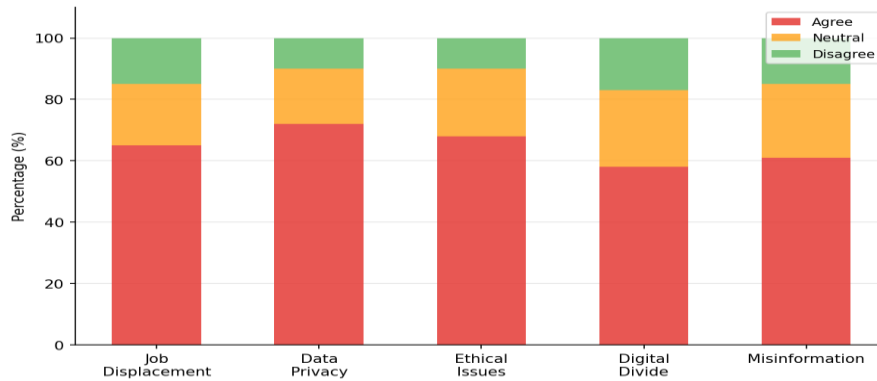


Figure 4: Adoption of AI – Issues of Concern. (Stacked Answers)

Figure 4 shows that concerns for data privacy are the leading agreement issue with 72%, closely followed by ethical issues with 68% and concern for job loss with 65%. Digital divide with 58% and AI misinformation with 61% also appear to be important issue indicating for inclusive AI policy development.

IV. FINDINGS

The results of the primary survey and the analysis of existing literature lead to the following conclusions:

AI in Society

Awareness of AI is very high, showing its common use and presence throughout our lives, however people acknowledge the benefits as well as the potential dangers, particularly with regards to privacy issues and spread of fake news. The platforms used to keep in touch socially and via communication networks depend on AI to engage users and issues such as algorithmic "echo chambers" are concerns regarding society.

AI in Business

The implementation of AI in business for the purposes of automation, predictive analytics and customer personalization has grown considerably. Organizations see clear business benefits, namely cost reduction (68%) and efficiency improvement (82%). However the need to embed AI ethically and support the reskilling of employees was stressed.

AI in Education

80% of respondents believed that AI had a positive influence on education. Adaptive learning systems, intelligent tutors and automated grading systems are all part of the tools which are integrated into the education system. The benefit that personalising learning (78%) stood out as a particularly positive advantage for education.

AI in Sustainable Development

There are several domains, such as climate monitoring, precision agriculture and energy management where AI can be utilized in the framework of environmentally sustainable strategies. The application of AI as a tool to reach sustainable resource management objectives and climate change actions is becoming a concern also among the public, however, ethic and egalitarian deployment of AI is demanded.

V. CONCLUSION

It can be concluded that AI will truly affect and reshape all aspects of human lives, including society, business, education and sustainable development. The findings based on the study presented indeed prove that AI poses numerous advantages, such as improving efficiency, increasing innovation, facilitating data-driven decision-making and offering the capacity to solve significant global problems. On the contrary, the concerns stated regarding ethics, privacy, displacement of jobs and digital divide need careful consideration and strategic planning.



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The continuous increase in autonomy and ubiquity of AI systems makes regulation, ethics, design and equal access a major priority.

The findings clearly demonstrate that AI is not solely about the technology itself, but involves principles, policy and the resolve of individuals. For example, it has already been proved that AI could be a real factor in meeting the targets of the Sustainable Development Goals, but is not only about being intelligent, but having the consciousness and conscientious to do the right thing.

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Here are a few important resources I will be drawing on when doing my review:

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