



**Original Article**

**ARTIFICIAL INTELLIGENCE AND SOCIETY: AN EVOLVING  
RELATIONSHIP**

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**Manuscript ID:**

IJAAR-130105

**ISSN: 2347-7075**

**Impact Factor – 8.141**

**Volume - 13**

**Issue - 1**

**September- October 2025**

**Pp. 28-31**

**Submitted:** 26 Sept 2025

**Revised:** 13 Oct 2025

**Accepted:** 25 Oct 2025

**Published:** 31 Oct 2025

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Quick Response Code:



Website: <https://ijaar.co.in/>



DOI:

10.5281/zenodo.17509719

DOI Link:

<https://doi.org/10.5281/zenodo.17509719>



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**Abstract:**

Artificial Intelligence (AI) has evolved from a hypothetical concept to a permanent fixture in contemporary society. Its spread has reshaped industries, impacted socio-political frameworks, and defied ethical conventions. This paper discusses the interplay between AI and society, analyzing historical evolution, present-day applications, ethical concerns, socioeconomic effects, and future directions. Through the incorporation of ideas from computer science, ethics, economics, and sociology, it strives to give a complete picture of how AI is influencing and being influenced by the society within which it exists.

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**How to cite this article:**

Miss. Aishwarya Arvind Kshirsagar & Mrs. Sneha Jitendra Dhanawade. (2025). Artificial Intelligence And Society: An Evolving Relationship. International Journal of Advance and Applied Research, 13(1), 28–31. <https://doi.org/10.5281/zenodo.17509719>



## **Introduction:**

Artificial Intelligence is the capability of computers to automate tasks that are normally intelligent in nature, such as problem-solving, reasoning, learning, and understanding language. With AI becoming more pervasive in daily life—from smartphones to intelligent cities—it raises fundamental questions regarding its purpose, advantages, and hazards. The purpose of this paper is to respond to a core question: How is AI reshaping society, and how ought society to react?

## **Historical Context:**

### **1. Initial Ideas and Principles:**

The concept of machines capable of "thinking" is as old as antiquity. Philosophers such as Aristotle hypothesized mechanical thought, and legends such as the Golem suggested artificial life. Formal AI study commenced in the 1950s, established by Alan Turing's "Can machines think?" and the Turing Test to follow. The 1956 Dartmouth Conference, organized by John McCarthy and Marvin Minsky, formally declared AI as a discipline.

### **2. Winters and Revivals:**

While there was initial enthusiasm, AI experienced periods of stagnation—"AI winters"—owing to technical constraints and unrealized hopes. The revival of interest in machine learning and big data in the 2010s and added computing power brought renewed interest and development to make today's AI renaissance possible.

## **Applications of AI in Contemporary Society:**

### **1. Healthcare:**

Artificial intelligence is transforming diagnostics, drug discovery, and personalized medicine. Technologies such as IBM Watson and Google's DeepMind have achieved success in disease detection, for example, cancer, and forecasting patient outcomes.

### **2. Education:**

AI platforms individualize learning experiences. Adaptive learning technologies have the ability to evaluate students' strengths and weaknesses and provide customized content to enhance outcomes.

### **3. Employment and Industry:**

In manufacturing, finance, logistics, and agriculture, operations are optimized by AI through predictive analytics and automation. Increasing efficiency in the process also results in large-scale job displacement and reskilling of the workforce.

### **4. Governance and Security:**

Governments leverage AI for policy planning, surveillance, and the delivery of public services. Its use in law enforcement, and in particular surveillance, is causing anxiety over privacy, bias, and civil liberties.

## **Ethical and Societal Implications:**

### **1. Algorithmic Discrimination and Bias:**

AI systems learned from biased data may reinforce systemic injustices. An example is facial recognition technologies that have demonstrated increased error rates in minority groups, with resultant wrongful arrest and surveillance.



## **2. Autonomy and Responsibility:**

Autonomous systems like autonomous vehicles or lethal autonomous weapons raise ethical challenges. When decisions are made by machines that impact human life, liability and accountability become problematic.

## **3. Surveillance and Privacy:**

AI amplifies surveillance potential, supporting massive data collection and real-time tracking. This jeopardizes personal privacy and civil liberties, particularly in authoritarian states.

## **4. Manipulation and Misinformation:**

AI has the potential to create deepfakes and automate dissemination of misinformation, eroding institutional trust and distorting democratic systems.

## **Socioeconomic Impacts:**

### **1. Labor Markets:**

Automation has the potential to replace repetitive and even sophisticated jobs, further disconnecting high-skill and low-skill workers. Yet, new AI development, maintenance, and governance opportunities emerge.

### **2. Inequality:**

Availability of AI technologies is lopsided, perpetuating global inequalities. Richer countries and companies lead AI innovation, trapping developing regions in the risk of technological dependence.

### **3. Cultural Shifts:**

AI shapes cultural norms in everything from the way humans interact (e.g., with virtual assistants) to the way they define intelligence and creativity. AI

challenges the value of human work and what defines work.

## **Governance and Regulation:**

### **1. International Frameworks:**

International institutions like the OECD and UNESCO have put forward AI guidelines that focus on transparency, accountability, and human-centric design. Binding global regulation is still out of reach.

### **2. National Policies:**

Nations are formulating AI policy to strike a balance between innovation and ethical control. For instance, the European Union's AI Act seeks to categorize and regulate AI systems according to risk.

### **3. The Role of Tech Companies:**

Private businesses are having an important influence on the path of AI. Ethical standards issued by companies such as Google and Microsoft indicate increased awareness, but self-regulation only goes so far.

## **Future Directions:**

### **1. Human-AI Collaboration:**

The future is augmented intelligence—cooperative systems that extend human strengths and do not displace them. This is co-evolution between people and machines.

### **2. Artificial General Intelligence (AGI):**

The possibility of AGI—machines with general cognitive capacities—raises existential issues. Although still in theory, its advent calls for active debate on alignment, control, and ethical limits.



### **3. Education and Public Literacy:**

Public education on AI is needed to enable participation in making informed decisions. Education systems need to adapt to ready citizens for the AI world.

### **Conclusion:**

Artificial Intelligence possesses revolutionary potential, promising unparalleled benefits and also staggering risks. Its incorporation into society is not just a technical issue but a profoundly human one. Making sure that AI benefits the public good depends on multidisciplinary collaboration, ethical anticipation, and inclusive regulation. As we embark on this

new terrain, society needs not just to adapt to AI but to actively create it.

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