

DIGITAL SOVEREIGNTY AND GLOBAL EQUITY REDEFINING INTELLECTUAL PROPRTY AND HUMAN RIGHTS IN THE ERA OF ARTIFICIAL INTELEGEENCE Manya R

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INTRODUCTION

Artificial Intelligence has become a powerful force shaping modern society, influencing economies, governance, and daily life¹. With the increasing use of data and advanced technologies, the concept of digital sovereignty—control over digital systems and data—has gained importance. ²However, access to AI remains unequal across countries, raising concerns about global equity. At the same time, traditional intellectual property laws are struggling to address issues related to AI-generated content. Additionally, AI poses challenges to human rights, such as privacy and freedom from discrimination³. This paper explores these issues and emphasizes the need for updated frameworks to ensure fairness, accountability, and inclusive technological growth. ⁴

Objectives

1. To understand the impact of AI on human rights and digital sovereignty.
2. To examine the role of AI in reshaping global economic power and digital inequality.
3. To analyses the challenges posed by AI to existing intellectual property laws.
4. To evaluate the ethical concerns related to AI, including bias, transparency, and accountability.
5. To study the unequal access to AI technologies between developed and developing countries.
6. To assess the risks AI poses to privacy, data protection, and individual freedoms.
7. To explore the need for international cooperation in AI governance and regulation.
8. To identify policy measures that ensure fair and inclusive AI development.
9. To understand the impact of AI on employment and workforce dynamics.
10. To suggest frameworks for responsible and sustainable use of AI technologies.

Elaborated Objectives

1. To understand the impact of AI on human rights and digital sovereigntyThis objective focuses on analysing how AI technologies influence fundamental human rights such as privacy, freedom of expression, and equality. It also examines how countries maintain control over their digital data, infrastructure, and AI systems, ensuring national independence in the digital space.

2. To examine the role of AI in reshaping global economic power and digital inequalityThis objective aims to study how AI is shifting economic dominance toward technologically advanced nations and large corporations. It also explores how unequal access to AI tools and resources is increasing the gap between developed and developing countries, leading to digital inequality.

3. To analyse the challenges posed by AI to existing intellectual property lawsThis objective evaluates how AI-generated content creates legal uncertainties regarding ownership, authorship, and copyright protection. It highlights the limitations of traditional intellectual property laws in addressing creations made by machines rather than humans.

4. To evaluate the ethical concerns related to AI, including bias, transparency, and accountabilityThis objective focuses on identifying ethical issues in AI systems, such as algorithmic bias, lack of transparency in decision-making processes, and difficulty in assigning responsibility for AI-driven outcomes. It emphasizes the need for ethical guidelines in AI development.

5. To study the unequal access to AI technologies between developed and developing countriesThis objective examines the disparities in AI infrastructure, expertise, and investment across countries. It highlights how limited access to AI technologies restricts innovation and growth opportunities in less developed regions.

6. To assess the risks AI poses to privacy, data protection, and individual freedomsThis objective analyses how AI systems collect, process, and store large volumes of personal data, potentially leading to privacy violations. It also considers risks such as surveillance, misuse of data, and restrictions on individual freedoms.

7. To explore the need for international cooperation in AI governance and regulationThis objective emphasizes the importance of global collaboration in creating common rules and standards for AI. It studies how international cooperation can help address cross-border challenges, ensure ethical use, and promote fair access to AI technologies.

8. To identify policy measures that ensure fair and inclusive AI developmentThis objective focuses on suggesting effective government policies and regulations that promote equal opportunities in AI development. It aims to ensure that AI benefits all sections of society, including marginalized and underrepresented groups.

9. To understand the impact of AI on employment and workforce dynamicsThis objective studies how AI is transforming the job market by automating tasks, creating new job roles, and changing skill requirements. It also examines the challenges of unemployment and the need for reskilling and upskilling workers.

10. To suggest frameworks for responsible and sustainable use of AI technologiesThis objective aims to develop guidelines and frameworks that ensure AI is used ethically, responsibly, and sustainably. It focuses on balancing technological advancement with social welfare, environmental concerns, and long-term human development.

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