

Chapter 6

Ethics in Artificial Intelligence: Building a Responsible and Inclusive Future

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ABSTRACT

The chapter discusses the importance of ethics in the development and use of AI. As AI becomes a bigger part of our daily lives, it is necessary to ensure that it is used in ways that are fair, safe, and respectful of human values. The article explains key ethical concerns such as bias, lack of fairness, loss of privacy, job loss, and lack of accountability. It also introduces major global efforts, such as the EU AI Act, OECD AI Principles, and UNESCO's guidelines, which aim to guide the safe and

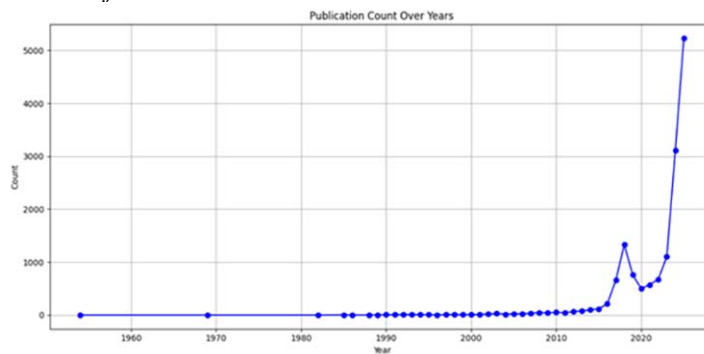
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responsible use of AI. It highlights the need for collaboration between experts from various fields to develop trustworthy AI. As technology continues to evolve, the role of ethics will become increasingly important. The main goal is to ensure that AI supports human well-being and helps create a better future for all.

1. INTRODUCTION

Artificial Intelligence (AI) has been the focus of rapid and transformative advancements lately, and the last two years have been associated with the breakneck pace of development. With many industries changed and redefined with the help of AI, healthcare, finance, transportation, and advertising stand out at the core of such attention. As much as these advancements have brought many good things to the society and the economy, it has also brought about numerous and complicated ethical issues that need strict research and policymaking approaches (Huriye, 2023; Kazim & Koshiyama, 2021). Figure 1 illustrates the extent to which the research and publication on the topic of AI and its ethics has been expanding as recently as possible. At the top of this list of ethical issues is the question of algorithms bias and discrimination, which may perpetuate and even worsen the preexisting societal inequalities, especially in areas of high stakes, including criminal justice and health-care (Bakiner, 2023). This signing black box nature of most AI systems presents serious obstacles to transparency and accountability thereby eroding trust amongst the people and challenges to means to assure justification and explainability of decisions (Huriye, 2023). Moreover, privacy issues are of particular concern because large quantities of personal information are collected and analysed by AI systems, and it is possible to suffer a violation of rights and self-determination (Bakiner, 2023).

Figure 1. Growth of AI Ethics



(Source: PubMed Database)

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