Social Effects and Challenges of Artificial Intelligence

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Abstract

Artificial Intelligence (AI) has emerged as a transformative force in modern society, influencing various sectors such as healthcare, education, transportation, and governance. While AI has the potential to improve efficiency, enhance decision-making, and create economic opportunities, it also presents significant challenges. On the social front, AI raises concerns about job displacement, privacy infringement, and ethical dilemmas in decision-making processes. The technology often reflects biases present in its training data, leading to discriminatory outcomes. Additionally, the lack of transparency in AI systems, also known as the "black box" problem, complicates accountability. This paper explores the dual impact of AI on society—its benefits and the ethical, social, and regulatory challenges that must be addressed to ensure its responsible development and deployment. By fostering collaboration between policymakers, technologists, and ethicists, society can harness AI's potential while mitigating its risks.

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