

The Intersection of AI and Sustainability in Business Management: An Overview

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Abstract: Artificial Intelligence (AI) has emerged as a cutting-edge technology that has the potential to revolutionize industries and societies on a global scale. AI offers a distinctive opportunity to confront the managerial obstacles associated with sustainability in the context of Sustainable Development (SD). In the management context, this study investigates the relationship between AI and SD, emphasizing the potential of AI to contribute to SD through a variety of applications. The research provides a bibliometric literature review of scientific publications on AI and SD, identifying critical areas in which AI can make a substantial contribution to the attainment of sustainability in business management.. Some of these areas are sustainable agriculture, computer sciences, economy and business management, and decision-making processes. The ethical considerations and challenges associated with the use of AI in business management literature in the context of SD were also addressed. Furthermore, the paper discusses the potential impact of AI on management practices and decision-making, with a particular emphasis on the implementation of AI strategies and the implementation of AI-based solutions to enhance environmental performance. This article has proposed and discussed the potential of AI to be integrated into management practices to facilitate SD and assist organizations in achieving their strategic objectives. Additionally, the research contributes to the ongoing discussion regarding the function of AI and SD in management. The study concludes by advocating for additional research and collaboration among a variety of stakeholders to optimize the potential of AI in SD.

Keywords: Artificial Intelligence, Sustainable Development, Business Management