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Exploring Artificial Intelligence as a Catalyst for Achieving Global Sustainability Targets

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Abstract: *The assessment of the impact of artificial intelligence (AI) on the attainment of the Sustainable Development Goals is necessitated by the emergence of AI and its progressively broader impact on numerous sectors. Through a consensus-based expert elicitation process, we have determined that AI has the potential to facilitate the completion of 134 targets across all objectives; however, it may also impede the completion of 59 targets. Nevertheless, significant components are obscured by the current research focus. Regulatory oversight and insight are essential for the rapid advancement of AI-based technologies in order to facilitate sustainable development. Failure to comply with this requirement could lead to deficiencies in ethical standards, safety, and transparency. The Sustainable Development Goals (SDGs) encompass 17 integrated priorities that establish global quantifiable targets by examining social, economic, and environmental development factors. A universal collection of metrics and a reference structure are intended to be employed by the international community to encourage initiatives and adoption by 2030. As a continuation of the Millennium Development Goals, which established a foundation for collaboration to eradicate extreme poverty, the United Nations established these targets in 2015. This new paradigm enables a long-term transition to more sustainable growth.*

Keywords: Artificial Intelligence, Sustainable Development Goals, empirical study