Harnessing AI for Sustainable Development Goals: A Path for Sustainable and Inclusive Future

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INTRODUCTION

The United Nations (UN) recommended 17 Sustainable Development Goals (SDGs) for the purpose of tackling the most difficult socioeconomic and environmental problems by 2030 (United Nations, 2022). These targets are to end poverty, lessen inequalities, fight climate change, and foster equitable economic growth. The SDGs designed to grant every nation the opportunity for development, while still providing fair and equal growth to all countries and communities (United Nations, 2021). Artificial Intelligence (AI) is by far the most remarkable technology that thoroughly advances sustainable development goals via its contribution. AI-powered instruments are reforming renewable energy systems, as well as participating in the project for the preservation of the climate, and establishing sustainable urban communities, thus they are picking up the tempo for the achievement of SDGs. This study delves into the ways AI inventions, like machine learning, natural language processing, and robots— can help companies make better decisions and operate more efficiently by using sustainability software at scale (Russell & Norvig, 2020).

AI is the most enabling agent for the accomplishment of sustainability by way of processing big datasets, recognizing patterns, and optimizing resource use. For instance, AI-powered energy control systems multiply energy efficiencies and diminish waste, while predictive analytics software boost climate observation and coping plans (Vinuesa et al., 2020). In agriculture, AI" supports Precision agriculture, repetitive usage of water, and the rise of crops (AlZubi and Galyna (2023). Also, AI-based intervention in healthcare, including disease monitoring and medical diagnosis, has a globally positive effect on patients' health (Microsoft, 2018).

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