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(57) Abstract :
 The present invention relates to higher education institutions (HEIs) are essential in advancing social responsibility and sustainable development in the digital era. By examining large datasets and finding patterns that conventional methods might miss, machine learning (ML) provides creative ways to evaluate and improve these activities. This study investigates how ML approaches, such as natural language processing and predictive analytics, can assess stakeholder participation, sustainability practices, and the social effect of HEIs. Institutions can foresee trends, track performance, and streamline social responsibility decision-making by utilizing machine learning algorithms. The study emphasizes how ML-driven evaluations can promote openness, enhance resource distribution, and guarantee conformity with international sustainability frameworks like the Sustainable Development Goals (SDGs) of the UN. While addressing the difficulties brought on by digital transformation and social demands, study highlights the transformative potential of machine learning (ML) in assisting HEIs in moving toward more sustainable and responsible practices. FIG.1

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