

Role of Artificial Intelligence in Sustainable Cities

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Abstract: Globally more than fifty percent population is living in urban areas, and by 2050, more than two-thirds of the population will be living in cities providing big investment opportunities for tech development companies. With more population living in cities, there is need for sustainable cities. Sustainable cities strive to create inclusive and equitable communities, addressing issues of affordable housing, social justice, and accessibility. This brings the increasing role of Artificial Intelligence in sustainable cities. AI makes urbanization smarter, aiming to accomplish sustainable growth by making the cities prepared with advanced features to live, shop, walk, and enjoy a safe and more convenient life in such environments. While developing cities to create them smart, various challenges like sanitation, administration, traffic congestion, security surveillance, parking management, and many more are overcome by the role of AI in sustainable cities as it can help to offer a sustainable solution to habitants. This paper studies the role of Artificial Intelligence in sustainable cities, challenges faced in applying AI & recommendations to overcome these challenges. Secondary data are used for this research. The study concludes that the role of AI in sustainable cities and urban development can play a crucial role in urban planning and management. In order to make societies more secure and liveable with availability and control of their home and other activities making their living experience more comfortable and enjoyable.

Keywords: Artificial Intelligence, Sustainable Cities, Urbanization