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(57) Abstract :

IoT and Machine Learning -based Monitoring Systems for Weather, Soil, Earthquakes, and Air Pollution ABSTRACT: The proliferation of the Internet of Things (IoT) has expedited the process of change in various industries, such as environmental monitoring and agricultural. According to projections, it is anticipated that the global population will reach 9.7 billion by the year 2050. This suggests that there will be an increased need for food and natural resources to meet the needs of the growing population. As per the United Nations, there is a pressing need to augment the world food supply by 70 percent in order to adequately address the escalating demand resulting from population growth. The Internet of Things (IoT) has a multitude of prospects for augmenting agricultural practices, mitigating wastage, and monitoring worldwide patterns. The utilization of precision farming and environmental monitoring, exemplified by the Internet of Things, has the potential to address the increasing need for food and resources while concurrently mitigating their ecological consequences. The Internet of Things (IoT) possesses the capacity to fundamentally transform the agricultural according to ecomprehensive worldwide surveillance. Precision agriculture, animal care, and environmental concern are associated with a multitude of advantages. This observation indicates that the Internet of Things holds promising prospects in these domains. By persisting in the advancement and utilization of these technologies, there is a possibility of foreseeing a future that is characterized by enhanced sustainability, efficiency, and productivity. We possess a high level of enthusiasm over the matter.

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