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(57) Abstract :
According to statistics, the present global population of 7.9 billion people is estimated to rise to 9.3 billion by the year 2050. To feed the world's growing population, the FAO intends to boost agricultural production by 70%. In current days, there has been a significant increase in the application of the Internet of Things (IoT) to multiple agricultural aspects such as climate change tracking, green-house robotization, crop production and control, livestock control and maintenance, farming techniques, agricultural unmanned aerial vehicles, forecasting assessment for smart farming, and several others. This innovation describes a data-driven intelligent IoT platform that assists farmers in making informed decisions about which crop to produce at any given moment. IoT sensors can anticipate soil moisture, the type of chemical supplies suitable for agriculture, and weather reports. The HTTP/COAP/MQTT interface is used to send data from IoT sensors to actual dashboards as well as connectors. Data Science is carried out on the data from the dashboards, and an intelligence platform is created. The informatics framework suggests which crop the farmers should produce and when the commodity should be harvested. Data analysis helps farmers make more informed decisions throughout the pre-harvesting, cultivation, and post-harvesting stages.

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