

Automation in Agriculture using Smart Instruments

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Abstract: *Now a days Automation in agriculture is very useful and meaningful for farmers. After using of latest technologies in agriculture industries farmers make lots of profits, reduces their efforts. Smart irrigation systems use sensors and automated controls to supply the right amount of water to crops, reducing waste and increasing efficiency and productivity of food products. Smart sensors useful for monitor soil conditions, temperature, humidity, and crop health, allowing farmers to make meaningful decisions. Drones are also playing an important role by assisting in crop monitoring, spraying pesticides, and also useful for many applications. This review paper discusses different types of smart irrigation systems, the role of sensors, and how drones are improving modern farming.*

Keywords: Soil Moisture, Smart Irrigation, Smart Sensors, Crop Monitoring, Smart Agriculture