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Automatic Irrigation and Worm Detection in Crop using Raspberry PI with OpenCV

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Abstract: *The Internet of Things (IoT) is a system of networked devices that can talk to one another and function on their own. Agriculture provides a wealth of indications for data analysis that help produce improved agricultural yields. Intelligent farming enhances information and communication thanks to the use of IoT devices in agriculture. For the best crop growth, it is important to consider a variety of parameters, including soil types, soil moisture, mineral nutrients, temperature, light, and oxygen. Now, a range of sensors can collect these parameters and transmit them to the cloud. A few of these criteria are taken into account in this study's data analysis in order to advise to the consumers better agricultural decisions using IoT. The Internet of Things (IoT) is a system of networked devices that can talk to one another and function on their own. Agriculture provides a wealth of indications for data analysis that help produce improved agricultural yields. Intelligent farming enhances information and communication thanks to the use of IoT devices in agriculture. For the best crop growth, it is important to consider a variety of parameters, including soil types, soil moisture, mineral nutrients, temperature, light, and oxygen. Now, a range of sensors can collect these parameters and transmit them to the cloud. A few of these criteria are taken into account in this study's data analysis in order to advise to the consumers better agricultural decisions using IoT.*

Keywords: Machine Learning, DTH 11, Raspberry-Pi, CNN(Convolutional Neural Network).

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