

IoT BASED INSPECTION OF FIELDS

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ABSTRACT:

Nowadays many a recent advancement in technologies is made .But we just concentrate over the field of Robotics where many recent developments are in process. Thus we need automation in the field of agriculture .We just gone over a wide range of technological development and found a solution for the agricultural problems. There are serious of problems faced during the agricultural practice, such as sowing of seeds, pesticide spraying, farming, maintenance of field etc...In order to overcome every problem, we are in need of automation in the field of agriculture. Now Agricultural robots are developed to reduce the work in the agricultural fields. Agricultural robots used for sowing of seeds, sprayers, cutters etc, which finds a great use for the agricultural purpose, which

finds a great use in the agricultural field, reduces the manpower .Thus it helps the people to be out of reach of the pesticides and preventing them from various diseases. Various other applications are also developed for the agricultural practice. But we just concentrate over the automation of agricultural robots. In specific Automatic Pesticide Sprayer is the heart of our paper. This greatly reduces the human involvement in the agricultural field and thus prevents from serious of diseases caused due to spraying of pesticides .It reduces human time in surfing over the fields and has a wide range of application in the field areas .It can also be useful in spraying of water to the agricultural plants. So for the benefit of our consumption it is very useful all fields. With further advancements it can also be domestically available for all users

Here the application of IoT is made with the help of Arduino which is interfaced with ESP8266 or NodeMCU. So due to which the device can be connected with the internet and then it is made to acquire, monitor the data with the internet. It can also be controlled from anywhere in the world. Periodic inspection of agriculture fields is achieved by this technique.