ABSTRACT

Smart Agriculture system is an aborning topic in this materialistic world. This paper describes the concept of featuring and elasting an agriculture platform to the internet world. Agriculture is the most important of human life so it can be improvised by using IoT technology. IoT technology gives a grasp to enhance the power of automation systems in agriculture. Smart agriculture System that uses the advantages of cutting-edge technologies such as Arduino and Wireless Sensor Network. This paper proposes the concept and features of the sensor world in the internet of things for agriculture which is used to enhance the production of crops. The Agriculture stick being proposed through this paper is integrating with Arduino Technology, Breadboard and mixed with different various sensors and live data feed can be obtained online through mobile phone. India Monitoring environmental conditions are the major factor to improve the yield of efficient crops. The feature of this paper includes the development of a system that can monitor temperature, humidity, moisture, and even the movement of animals which may destroy the crops in agricultural fields through sensors using Arduino board. With its energy autonomy and low cost, the system has the potential to be useful in water-limited geographically isolated areas.

Analysis of marketing in Smart Agriculture V. METHODOLOGY The basic building blocks of an IoT System are Sensors, Processors, and applications. So the block diagram below is the proposed model of our project which shows the interconnection of these blocks. The sensors are interfaced with Microcontroller, data from the sensor is displayed on the mobile app of the user. A mobile app provides an access to continuous data from sensors and accordingly helps the farmer to take action to fulfill the requirements of the soil. Farming is a labor-intensive task that requires lots of time and effort. Usually, these tasks are repetitive and monotonous. Farmers can delegate these labor-intensive tasks to robotics and automation-based solutions. Such solutions can perform tasks that range from seeding and watering to harvesting and sorting. Eventually, this technology integration would result in higher productivity with minimal resource wastage. Robotic Machinery also helps in supporting farm machinery. It is useful for sowing, harvesting, and other services and helps in avoiding human errors. Farms can utilize robotic systems for pesticide spraying, harvesting, cultivating, and other such activities.

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