

## **ABSTRACT**

IoT is a revolutionary technology that represents the future of communication & computing. These days IoT is used in every field like smart homes, smart traffic control smart cities etc. The area of implementation of IoT is vast and can be implemented in every field. Farming can be made more efficient & accurate with the implementation of IoT device. In the next few years, smart farming will reach each and every nook of the world. The focus of this system is to improve farming methods, increase the productivity and finally lead to effective use of the available resources. In this project, the environment monitoring sensors such as humidity sensor, NPK sensors are interfaced with the controller NodeMcu Esp32 and the data from the sensors are transferred to the cloud using node red and are displayed in the mobile application created using MIT App inventor. The farmer can simply determine the condition of the farmland by using these statistics.