**A Report On E-HealthCare in**

**Cattle Health Management**

**IoT ESE-2**

**Yash Ananda Nikam**

**Roll-No-56**

**10/05/2023**

**Introduction**:

For any progressive as well as progress countries Agricultureplay crucial role or we can say that it’s act like backbone ofsuch countries. At present agriculture besides farming

includes forestry, fruit cultivation, dairy, poultry , Beekeeping etc. today, all accepted as part of modern agriculture.Out of this scale of dairy farming has been changed worldwide

over recent year with a move toward larger, moreintensive, profit driven enterprises, primarily due to marketpressure and demanding of milk products. This has been

leads in demand for technologies such things can be achieveby using farm automation and advanced technology.In last two decades an important aspect of farm automation

that is being researched is area of automated animal health

monitoring system. In this paper we will be focus onmonitoring the health of cattle’s by using non-invasive, lowcost sensors technology that detect sudden change in body

parameter like temperature, blood pressure etc. Theparameter that is taken by sensors are access by usingwireless technology collect data use for early detection of

disease this things are going to develops by using IOT.

**Problem statement:**

project is divided into three domains (sensors technology,communication and software)

A. Sensor Technology

B. Communication

C. Software

a) Heart Beat Sensor

The normal heartbeat of an adult cattle is between 48 and 84

beats per minute. This sensor will detect stress as well as

animal's anxiety. The heartbeat sensor generally used is a

stethoscope. It is kept behind cow's elbow to listen over the

b) Motion sensor

Motion sensors use electronic accelerometers to record the lying, walking and standing behavior of animals. These sensors are used with aim of monitoring the movement behavior of cattle for improving animal’s health and production. If the data is automatically collected on large numbers and in continuous period of time then the health of the cattle can be improved to a large extent. This data can be used by the stakeholders for management and disease control decision.

B.Communication:

We can send the animal health graph to the doctor’s mobile using ESP8266 WIFI

module. This WIFI module sends the signals through the IOT technology. So by observing this graph doctor can tell about the animal health. Arduino UNO

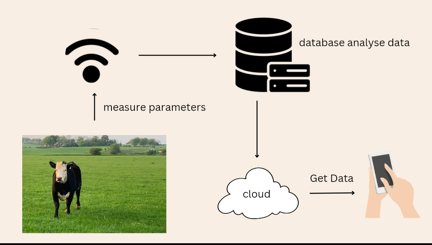
has enough memory to transform the signs arriving from the data gaining unit through sensors into a ESP8266 WIFI module for communication and then the signals are given to the software for examining and displaying the data. The main function is when the animal will suffer from disease people use to take that animal to the doctor for diagnosis but sometimes doctors will not be available in hospitals so using

this advance monitoring system we can sense the various activities of animals like body temperature, respiration ,heartbeat, motions etc. and send the animal health graph to

the doctor mobile using ESP8266 WIFI module. So by observing these graphs doctor can tell about the animal’s

health.

**Architecture diagram**



**Advantages**

* *Identify And Analysis Of An Viruses And Diseases*
* *Produce Good Quality Of Milk*
* *Identify Location Of Cattles*

**Conclusion**

This research has been undertaken in order to establish specific sensor technologies as a significant means to monitor animal health and to ensure animal well-being in the fast changing conditions of automated farms. Due to the high demand and supply of dairy products, dairy cattle are in a constant demand for high yield, leading to the need of

continuously monitoring of their health to ensure their fitness as it directly affects the health of the consumers. Moreover, the overall economy in the dairy farming industry depends on the herds’ health. Several cattle diseases have been studied in depth and analysis of the symptoms associated with these conditions. These symptoms were then mapped to the type of sensors that would be able to measure the said behavior.