Fuzzy logic system to detect Human Activity Recognition

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Abstract: These days health sector became a vast development in the entire world. Health care plays major role is of many scenario at present. The newest way of health care is to monitor the elder people with the smart activity recognition technique. The elder people needs someone assistance to pass on their daily life, as these modern world has no time for looking each and every one, this recognition technique helps the sons and daughters to monitor their old aged parents whether they are standing, walking, sitting or falling. This helps to monitor each and every step of elder people to be noticed where they were when we are in work. This system tracks the moments of elder people.

Keywords: Elder, tracking, health.

I. INTRODUCTION

Health care of traditional is difficult to arrange every people needs to the vast increase in population. Instead of normal health monitoring by traditional methods there will be new method to monitor elder people.olden days there will be one or two people keep continuously monitoring people in the hospital for their security. That will be very difficult for every people to keep on monitoring the elder people.

In olden days the nurse or care taker must be continuously look after the elder people while they are going to outside. While the people going outside or sitting or standing or walking or sleeping.Those days will be harder to look after the people of old age for continuously monitoring them.

The new system helps in elder people by wearing it and then their process will be measured in the phone or laptop. The old age people will be wearing these gadget and they will be monitored by whether they are walking or standing or falling. When any one are busy to look after their old people this gadget helps in ,monitoring and send them an alert, wether the old people are falling or whether they went any long distance immediately the gadget will give an alert for the person who were incharge for that elder people.

II. LITERATURE SURVEY

In This paper explains the robotic way of monitoring patients by using various sensors available in the market.

all the sensors will be there on the heavy gadget and there will be time consuming for this process.

We can easily eraducte all these errors by this method.

In [2], here the patient will be kept in a room consists of sensors and those sensors will be continuous monitoring the patients which were in this room. Those is available of very nominal prices and there will be difficult to monitor a room full of patients by only one person.The room consists of many patients and there will be only one person to look after them. So by using this method we can skip many problems

III. COMPONENTS REQUIRED

HARDWARE:

- ➢ Arduinon
- ➢ GYROSCOPE SENSOR
- ➢ Sensor for temperature
- ➢ GSM
- ➢ IOT
- ➢ GPS
- ➢ Power Supply

SOFTWARE:

- ➢ Arduino IDE
- ➢ C

BLOCK DIAGRAM:

fig1:- Block diagram

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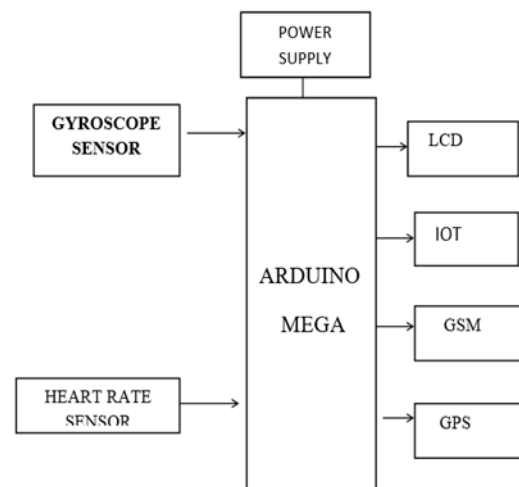
IV. WORKING PRINCIPLES& RESULTS

At first the Gyroscopic sensor , temperature sensor and activity sensor are all comprised in a lay out. That gadget was made of IOT. That gadget will be attached to the old aged people. Those sensors collect all the values from the person and it was sent to Cloud monitoring system by the help of IOT. By using Fuzzy logic all the values will be compared with the repository sets of the UCI values and the out put is sent to mobile or laptop by GPS.

V. CONCLUSIONS

Here the output is monitored on a laptop or phone that the elder people activity will be shown whether they are sleeping or standing or walking or falling.

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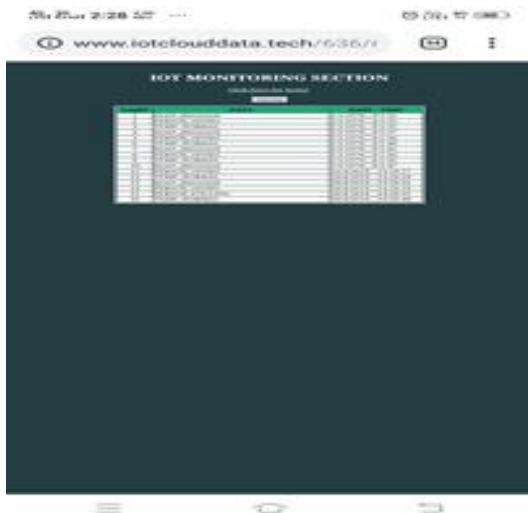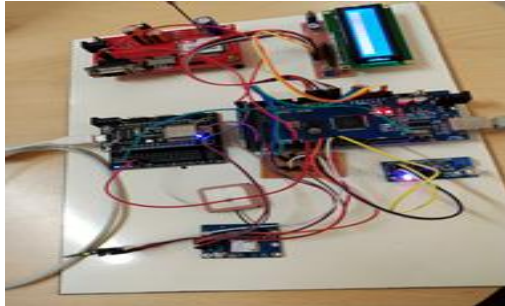
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