A Smart System for Alcohol and Heart Attack Detection in Transportation using IOT

Mr. Mohan A. Gholap[1], Mr. Ravindra R. Patil[2],
Ms. Soumya Patil[3], Ms. Arpita Khadakabhavi[4], Ms. Shweta Dharmatti[5], Ms. Meenaxi Patil[6]

[1,2]Assistant Professor; [3,4,5,6]UG Students,
Dept. of CSE, Hirasugar Institute of Technology, Nidasoshi, Karnataka
1mohangholap.cse@hsit.ac.in, 2 ravindrapatil.cse@hsit.ac.in, 3soumyapatil1403@gmail.com,
4khadakabhaviarpita149@gmail.com, 5shwetadharmatti1998@gmail.com, 6menu.chikki@gmail.com

Abstract

In this modern world, the proverb "Prevention is better than cure" makes very much impact on our day to day life. since everybody would like to enjoy their life in their way without worrying about the side effects of what they are doing. Keeping this in our mind we are proposing a system that mainly focusses on safety measures of drivers such as drink and drives and heart attack detection while driving the vehicle. We have used two types of sensors like heartbeat sensor and Alcohol detection sensor to sense health condition and ethanol[2]. It also inform the health condition and current location of the driver to their relatives using GSM & GPS module, and by slowing down the speed automatically parks the car to side of the road by switching ON the indicators. Heartbeat sensor is used to monitor the heartbeat rate of the driver constantly and prevents from the accidents by controlling through IoT. Alcohol detection sensor i.e. MQ3 sensor which detects ethanol in the air. When a drunk driver breathes near the alcohol sensor it detects the ethanol in his breath and provides an output based on alcohol concentration. If it detects any one problem the same will be sent to the car through the IoT system to slow down the speed of the car, trigger an indicator to send the information, and stop the car on the road shoulder before it reaches the white line.

∗ Corresponding author
E-mail address: mohangholap.cse@hsit.ac.in