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Automatic Health Monitoring Device using Gloves and Gesture Recognition System for Emergency Alert

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Abstract: *Even after voice assistants, virtual assistants, and other new technologies have come into existence, many are still facing problems to use them conveniently and effectively. Our project is mainly applicable to old people, physically challenged, and bedridden people. Our project application areas are hospitals and old age homes. During emergency situations where the user is not able to access his/her mobile phone, our prototype can handle such situations effectively by detecting the user's hand gestures and sending alerts to caretakers and hospitals. Our model also has a medical alert system. According to the prior initialization of the time for the medicines to be taken, this prototype alerts the user at that exact time. The alert message is displayed on the mobile and also through a buzzer. This glove has a temperature sensor, flex sensors, and pulse-oxy sensors embedded which give the continuous readings of user-health parameters and are displayed on the display placed on the glove. The main feature of the glove is to communicate the needs of the user which can be accomplished by a flex sensor*

Keywords: voice assistants

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