August : An Interactive Life Saver using Natural Language Processing

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Abstract— Everyday, there are many lives lost due to lack of assistance or help during emergencies. Sometimes, there is an absence of humanity too. Automation has now become a vital part of our life, may it be from waking us up to medical assistance and lot more. So, to save lives during emergencies, we serve a voice based android application where it would interact with the user and help them with their needs.

This application is integrated with a smart watch that can calculate the pulse of the user and also the temperature. There is a question answering system present. It also uses sentiment analysis to find if the person is okay according to the answer. If there is no response, the application sends an alert to the contacts marked for emergencies. These are also fed as input to the system. Then particular first aid is given as output to the user through voice using noun phrase extraction and medical term identifier during normalization. On both the cases, an alert is sent to the "emergency contacts". For this to work, the voice recognition is kept enabled.

Question is generated after checking the pulse and temperature of the user, if it goes below the normal threshold level, a simple question for instance"are you okay?" is generated. The next question depends on the answer for the first question.