Smart Voice Assistant for Diabetes Management with Non-Invasive IoT Software

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Over the last few decades, the rapid growth of the Internet of Things (IoT) technology has been exponentially expanding and positively impacting different aspects of life. Alongside the innovations and developments of artificial intelligence, smart voice assistant (SVA) was invented and is widely used on a daily basis—controlling home automation, performing tasks such as playing music, accessing and checking information—to make people's lives easier. Furthermore, SVA has also been integrated into and is used in healthcare, especially personal assistance for elderly patients. In this study, we first explored and surveyed the usages and impacts of SVA in healthcare and particularly for elderly diabetic patients. Then, we create an application to connect SVA to our developing diabetes management mobile application by using Python and Google Assistant. The fundamental purpose of our research is to apply and connect the present-day SVA to current mobile applications as well as uncover countless ways that SVA can impact not only people's daily lives but also society.

Key words: smart voice assistant, internet of things, technology in healthcare, voice-controlled personal assistant.