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Voice Assistant for Improving Patient's Lives: The Implementation and Case Study

Over the last few years, the adoption of voice assistants in IoT devices has experienced rapid growth as a result of advanced technology alongside the development of artificial intelligence. According to a survey conducted by Juniper Research, over 2.5 billion digital voice assistants were being used in devices around the world by the end of 2018. By 2023, the number is expected to triple to 8 billion. Voice assistants (VA) have integrated into and become a part of human's modern life with the purpose of making things more accessible and easier to use, hence, improving the users' living experience. VA is not only used for daily life tasks but is also integrated into the healthcare system along with IoT devices. Therefore, we propose a study on the impact and usage of VA in healthcare, especially as a personal assistant. Furthermore, we create an implementation and a case study on an IoT device with a custom voice assistant, Amazon Alexa, for diabetic patients who use a non-invasive blood glucose monitoring system.