

# Personal Intelligent Natural Language Assistant for Sinhala Language

AAPK Jayaratne, B Hettige

*Department of Computer Engineering, Faculty of Computing, General Sir John Kotelawala Defence University, Ratmalana, Sri Lanka*

**Abstract.** Voice assistants are thought of to be a developing technology within the world that was recently introduced. The voice assistant has with success been ready to replace human assistants and build human lives easier. Voice assistants are code agents which will interpret human speech and respond via synthesized voices. Apple's Siri, Amazon' Alexa, Microsoft' Cortana, and Google' Assistant are the foremost in-vogue voice assistants and are embedded in smartphones or dedicated home speakers. However, these sort of voice assistants is built exclusively to support most country language or another world language. Not any of these voice assistants support the Sinhala language. This paper presents developing a Sinhala Voice Interface to support Sinhala commands and Sinhala speech and the thanks to responding via Sinhala-enabled synthesized voices. The interface is going to be liable for gathering Sinhala voice commands and playing actions supported by the input human speech command and generating outputs via Sinhala synthesized voices. The system is trained to support every English and Sinhala command. The system will perform terribly easy tasks that have already been accessible and performed by the opposite assistants. The paper discusses a lot of how the language process is employed within the system and the way it's been used to model the Sinhala language to supply services from the system. In step with the undergone research, there have been a lot of helpful tools that have been designed to model the Sinhala language commands. Also, the paper discusses the flow of the system and several other modules within the system. It' 85% accurate in recognizing Sinhala and English voice commands.

**Keywords:** *Natural Language, Computer Code Agents, Voice Assistants, Sinhala voice interface, Synthesized voice*