# Jack: Virtual Voice Desktop Assistant

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**Abstract:** *Voice assistants are the good innovation within the field of AI which will change the way of living of the people during a different manner. The voice assistant was first introduced on smartphones and after the recognition it got. It was widely accepted by all. Initially, the voice assistant was mostly getting used in smartphones and laptops, but now it's also coming as home automation and smart speakers. Many devices are getting smarter in their own thanks to interact with human in a simple language. The Desktop based voice assistant are the programs which will recognize human voices and may respond via integrated voice system. This paper will define the working of a voice assistant, their main problems and limitations. In this paper it's described that the tactic of making a voice assistant without using cloud services, which can allow the expansion of such devices within the future.*

**Keywords:** Voice Assistant, NLKT, Tkinter GUI, Natural Language Processing, Speech Recognition, Python.

### REFERENCES

[1]. Smart voice based Virtual assistants with Artificial intelligence Volume 1 – Issue 3 (June-2020).

[2]. Microsoft. Cortana. 2May 2021. Available online:https://www.microsoft.com/windows/cortana/

[3]. Cortana – Wikipedia: https://en.wikipedia.org/wiki/Cortana

[4]. International Journal of Engineering Research and Technology. ISSN 0974- 3154 Volume 10, Number 1 (2017).

[5]. A Review Paper on Smart Personal Assistant Yogendra Kumar Sharma1 Neeraj Sharma B.Tech Scholar Assistant Professor Department of Electronics & Communication ISSN 2278-0181 Volume 4 – Issue 32 (2016).

[6]. Aditya Sinha, Gargi Garg, Gourav Rajwani, Shimona Tayal, "Intelligent Personal Assistant". International Journal of Informative & Futuristic Research, Volume 4, Issue 8 (April-2017).

[7]. Virtual Assistant https://en.wikipedia.org/wiki/Virtual_assistant#:~:text=Radio%20Rex%20was%20the%20first,the%20Automatic%20Digit%20Recognition%20machine.

[8]. Paper https://fardapaper.ir/mohavaha/uploads/2019/09/Fardapaper-Investigation-and-development-of-the-intelligent-voice-assistant-for-the-Internet-of-Things-using-machine-learning.pdf