



## TTS AND STT GUI BASED VIRTUAL ASSISTANCE FOR VISUALLY IMPAIRED INDIVIDUALS

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### ABSTRACT

*Viewing text-based material may be challenging for people with partial disabilities, and they need assistance from a third party. A text-to-speech (TTS) system that enables the partially sighted to hear a sound read-back of any text from an image can be created to address the issue. The programming that offers voice assistance to the partially impaired so they can access the internet is included in this audit document. Additionally, with the development of the Internet, everyone now uses a mobile phone. The structural framework for using speech as an input for mail, alerts, URLs, as well as for reading out text messages, is also introduced in this application. The STT and TTS methods are both applied using Natural Language processing and deployed using the flutter application.*

**KEYWORDS:** *Natural language processing, Text to speech synthesis, Easyocr*