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Speech to Text Conversion and Translation using Google Voice

Speech to Text Conversion and Translation is based on deep learning technologies consisting of neural networks in order to convert the audio signal into text format and translate the text output into any Indian language. The voice assistant will help in applications where there is a need to convert speech to text like services to interpret spoken words. A hands-free experience is achieved to convert the spoken words from one language into another. The voice assistant will be used to work as the medium for recording the audio of the user and the inputted audio converted into textual format. The system helps people with special needs and language barriers to interpret the communicated words into textual content..

Speech-to-Text Conversion and Translation system will be based on the deep learning neural networks and will be programmed using Python language. Google's Artificial Intelligence Yourself (AIY) kit will be used as the device to provide the audio input. It will consist of the speech-to-text conversion module that will convert the spoken words into text. The text translation module will translate the transformed text into the required language.

The speech-to-text conversion module will be able to convert the audio recorded by the Google AIY voice kit into textual format. The text translation module will translate and print the output of the speech-to-text conversion module in the required language. The system will help in understanding the vernacular language sentences spoken by the people and translate it into the required language.

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