**Title of the Project:**

Bridging the Silence: Phone Calls for Deaf People to Attend and Communicate

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**ABSTRACT:**

People with hearing and speech impairments often face significant challenges in participating in phone calls or online conversations. These barriers not only make them feel excluded from everyday communication but also create serious difficulties in situations where they need to convey important messages, particularly during emergencies.

To address this issue, Al-based technologies can provide effective accessibility solutions. Speech-to-text (STT) systems such as Whisper or Google STT can transcribe spoken words into live text, allowing hearing-impaired users to instantly read what the other person is saying.

Furthermore, text-to-speech (TTS) can convert typed responses into spoken words, ensuring that individuals with speech impairments can communicate naturally with hearing users. For added inclusivity, advanced solutions such as Al-driven sign language recognition through computer vision tools like MediaPipe or TensorFlow can be integrated, helping to bridge the gap between sign language users and non-signers.

Together, these technologies can create a more inclusive communication platform that empowers people with hearing and speech impairments to interact effectively, both in daily life and in critical situations.