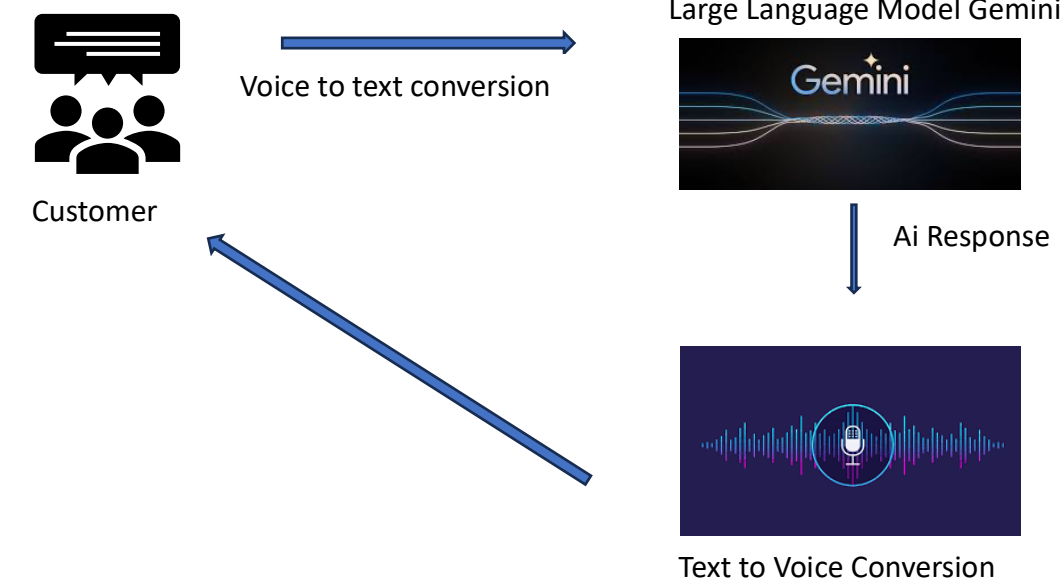


# AI Voice Assistant

Implementation diagram



I have Created streamlit-based web application which allows users to record their voice, transcribes the audio into text, generates a response using Google Gemini's model and then converts the AI's response back into speech.

## Step 1 Voice-to-Text Conversion –

I have used :

- a) Streamlit - A framework to create web apps in Python.
- b) Audio\_recorder\_streamlit - which captures audio input from the user within the Streamlit app.
- c) Faster\_whisper - used to convert for Audio transcription.

## Step 2 Text Input into LLM -

I have used Gemini ai model which input the query into LLM in text format .

- a) Generativeai – which Interacts with Google's Gemini model.

## Step 3 Text-to-Speech Conversion -

Here model response is converted to speech and played back to the user. I have used :

- a) Google Text-to-Speech (gTTS) - Converts text responses back into speech.
- b) Pygame - to plays the audio files.

[Github project Link](#)