CUSTOMER VIRTUAL ASSISTANT TETRAD

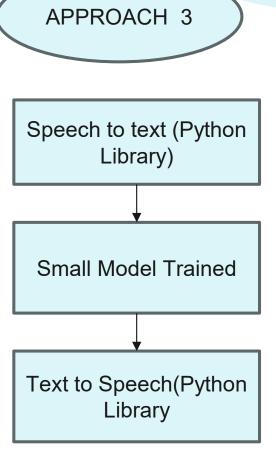
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Problem Statement

Existing Solutions often fall short in delivering seamless and natural interactions between customers and virtual assistants. AI interactions require a complex integration of LLMs, Speech to Text and vice versa. So the mission is to build an intelligent CVA to overcome limitations such as slow response times and unnatural interactions and to facilitate ease of communication.



Approach APPROACH 1 APPROACH 2 Speech to text Speech to text (HF Model) (Python Library) LLM(Mistral:7B) LLM Text to Text to Speech Speech(Python (HF Model) Library)



Models in use

01

Speech to text

Using pyttsx3 and speech recognition libraries

02

LLM(Large Language Model)

A large language model (LLM) is a type of artificial intelligence (AI) program that can recognize and generate text, among other tasks. LLMs are trained on huge sets of data — hence the name "large." LLMs are built on machine learning: specifically, a type of neural network called a transformer model.

03

Text to speech

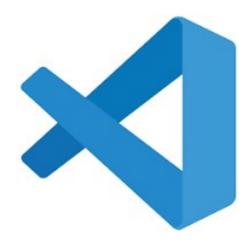
Using pyttsx3 and speech recognition libraries

Tech Stack









Thank You