PYTHON PROJECT VOICE ASSISTANT PIKACHU

PROBLEM STATEMENT

Finding reliable information online is hard because there's a lot of wrong or biased information, search results can be off-target, and multitasking while looking up information is tough.

PROJECT OVERVIEW

Our project is a voice assistant that helps people by listening to their spoken commands and responding to them. It can do different things like: Answer Questions, Check News, Weather Updates, Wikipedia Search, Translate Text

SOLUTION OFFERED

Use APIs sources to fetch the information and to make sure the information provided by the voice assistant is accurate and reliable

WHO ARE THE END USERS?

List of end user:

Individuals (E.g. To translate, To Read News etc.)

Professionals(E.g. Teachers, StockMarket Users)

Learners(E.g. Students)

Organization or educational institutions (e.g., schools, universities). Transportation

Services(E.g. to get distance between to cities)

Python: The code is written in the Python programming language.

Speech Recognition API: The implementation utilizes Speech Recognition API to convert spoken commands into text for processing.

Text-to-Speech API: The Text-to-Speech API is employed to convert responses into natural-sounding speech for user interaction.

Wolfram Alpha API: Integration with Wolfram Alpha API enables the voice assistant to answer **factual queries accurately.**

News API: Usage of News API allows the assistant to fetch top news headlines from various sources.

Weather API: Weather API integration provides real-time weather updates based on user input.

Wikipedia API: Wikipedia API integration facilitates fetching summarized information from Wikipedia based on user queries.

Text Translation: Supports translation of text from English to Hindi, German and Japanese