**PYTHON PROJECT REPORT**

**Libraries Imported:**

**Openai :**

The OpenAI library is used in Python to interact with OpenAI's powerful artificial intelligence models and APIs. It provides a convenient and user-friendly way to access OpenAI's language models and other AI services.

**Pyttsx3 :**

**pyttsx3** is a Python library that provides a cross-platform interface for Text-to-Speech (TTS) functionality. It allows you to convert written text into spoken words by utilizing the speech synthesis capabilities of different operating systems.

**Speech\_recognition:**

The **speech\_recognition** library in Python is a powerful package that provides speech recognition capabilities to convert spoken language into written text. It allows developers to incorporate speech recognition functionality into their Python applications.

**HOW IT WORK’S:**

This code implements a voice-based question-answering This System using OpenAI's GPT-3 model. The program listens for the trigger word "hello" spoken by the user, records their question through a microphone, transcribes the audio to text, and sends the text prompt to the GPT-3 model for generating a response. The response is then converted into speech using the pyttsx3 library and played back to the user. The code utilizes the openai, pyttsx3, and speech\_recognition libraries to interact with the OpenAI API and handle audio input/output. The system continuously loops, allowing the user to ask multiple questions. It provides a convenient interface for obtaining spoken answers to user queries.

**How to use it?**

Step 0: Run the Program

Step 1: First the user have to tell **“”hello””** to Start the Voice GPT

Step 2: Ask Something to the GPT.

Eg: Tell me about MS DHONI.

Tell Me a Story.

Explain me how wireless technology works.

Step 3: The GPT will answer your questions

Step 4: Say **Stop** to exit

Step 5: END

**CONCLUSION:**

In conclusion, the provided code sets up a voice-controlled assistant that utilizes OpenAI's GPT-3 model for generating responses. It listens for the keyword "hello" from the user, records their question as audio, transcribes it to text, generates a response using GPT-3, and reads the response using text-to-speech. The assistant continues running until the user says "stop". It demonstrates the integration of speech recognition, text generation, and text-to-speech technologies to create a voice-b