

```
main.py 01_main_bot.py X
Megaproject 02 > 01_main_bot.py > ...
1  # MEGAPROJECT 02 : CHATBOT ASSISTANT FOR WHATSAPP !
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3  # Importing all of the important and needed libraries in our project:
4  import pyautogui
5  import pyperclip
6  import time
7  from openai import OpenAI
```

PROJECT : SWIFTREPLY INTELLIGENT CHAT AUTOMATION FOR WHATSAPP

Status : Completed ▾

OVERVIEW

This project demonstrates the integration of OpenAI's GPT-based chatbot to automate intelligent and context-aware WhatsApp responses. It combines Python libraries like `pyautogui` for GUI automation, `pyperclip` for clipboard handling, and OpenAI's API to generate dynamic responses based on WhatsApp chat history.

FEATURES

- Seamless Integration with WhatsApp Desktop: Automates tasks such as reading chat history and sending responses.
 - OpenAI GPT-powered Responses: Generates context-aware, short, and engaging replies.
 - Multilingual Capabilities: Replies in Hindi, English, and Hinglish, tailored to emulate a specific personality.
 - Clipboard Handling: Efficiently copies and pastes messages to and from WhatsApp.
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INSTALLATION

Prerequisites For The Project:

1. Python 3.8+: Ensure you have Python installed on your system.
2. Libraries: Install the required Python libraries:

```
pip install pyautogui pyperclip openai
```

3. OpenAI API Key: Get your API key from the [OpenAI Platform](#).
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USAGE INSTRUCTIONS

Step 1: Setup OpenAI Integration

Replace the placeholder `api_key` with your actual OpenAI API key:

```
client = OpenAI(api_key="your-api-key-here")
```

Step 2: Customize Behavior

Modify the system message in the `client.chat.completions.create` function to define the chatbot's personality and response style.

Step 3: Run the Script

Execute the Python script to automate chat responses on WhatsApp.

CODE EXPLANATION

1. WhatsApp Window Interaction:

- Opens WhatsApp Desktop and selects the chat window.
- Copies the chat history using `pyautogui` for GUI automation.

2. OpenAI GPT Integration:

- Sends the copied chat history to the OpenAI API.
- Generates a response based on predefined personality traits.

3. Automated Response Sending:

- Pastes the generated response into the WhatsApp chat window.
 - Sends the reply by simulating the `Enter` key press.
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KEY LIBRARIES

- `pyautogui`: Automates mouse and keyboard interactions.
 - `pyperclip`: Manages clipboard operations for seamless text handling.
 - `openai`: Communicates with the OpenAI API to generate intelligent responses.
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PROJECT DEMO

Want to see the project in action? Check out this short demo video:

Want to use the project in action? Check out this github link:

IMPORTANT NOTES

- Safety: Ensure you run this script in a controlled environment, as it manipulates your system's GUI.
 - Ethics: Use this project responsibly and avoid spamming or impersonation.
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CONTRIBUTORS

Feel free to contribute to this project by:

- Improving automation techniques & machine learning integration.
- Enhancing response personalization.

- Adding support for other platforms.
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CONTACT ME

For inquiries or feedback, connect with me on [LinkedIn](#) or drop me an email at sarthakdhiman815@gmail.com
