

# **Summary of the Chat Bot**

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**Year/ Semester : 3<sup>rd</sup> Year 1<sup>st</sup> Semester**  
**Date : 17.04.2024**

# Chat Bot Summary

## 1. Purpose:

The chatbot is designed to interact with users by responding to their messages based on predefined patterns and keywords.

## 2. Features:

- Greetings: Responds with "Hello!" to greetings like "hello," "hi," or "hey."
- Well-being Inquiry: Responds with "I'm doing fine, and you?" to questions about how it's doing.
- Gratitude Response: Responds with "Thank you!" to expressions of gratitude.
- Responds with "You're welcome!" to expressions of thanks.
- Interest in Programming: Responds with "I enjoy programming." to inquiries about its interests.
- Goodbye Messages: Responds with "See you later!" to goodbye messages like "bye" or "see you."
- Identity Confirmation: Responds with "I am a chatbot." when asked about its identity.
- Eating Preferences: Responds with a predefined message about not eating anything when asked about eating habits.

## 3. Functionality:

- Message Probability Calculation: Calculates the probability of a message being relevant to each predefined response based on recognized words and required words.
- Response Selection: Selects the most appropriate response based on the calculated probabilities.

## 4. Usage:

Users can interact with the chatbot by typing messages, to which the chatbot responds accordingly.

The chatbot can handle various types of inquiries and conversations based on predefined responses and message probabilities.

## 5. Limitations:

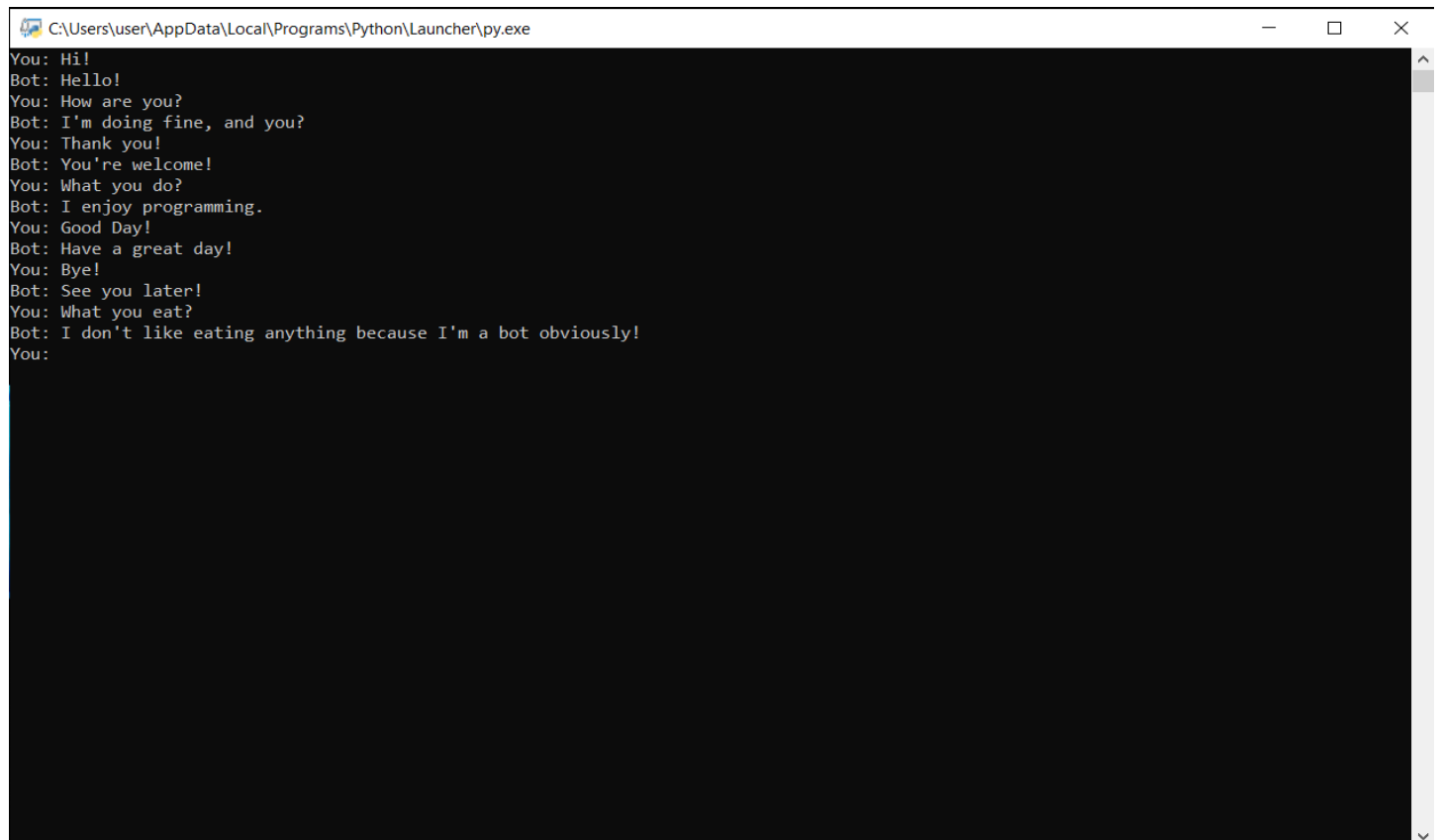
The chatbot's responses are limited to the predefined patterns and keywords defined in the code. It may not handle complex conversations or understand nuanced queries beyond its predefined capabilities.

## 6. Future Enhancements:

Addition of more responses and features to handle a wider range of conversations.

Integration of natural language processing techniques to improve understanding and response accuracy.

This summary provides an overview of what the chatbot can do, its features, limitations, and potential future enhancements. It's important to note that the chatbot's functionality and capabilities are based on the provided code and can be expanded or modified as needed.

A screenshot of a Windows application window titled "C:\Users\user\AppData\Local\Programs\Python\Launcher\py.exe". The window contains a text-based chat interface with a black background and white text. The conversation is as follows:  
You: Hi!  
Bot: Hello!  
You: How are you?  
Bot: I'm doing fine, and you?  
You: Thank you!  
Bot: You're welcome!  
You: What you do?  
Bot: I enjoy programming.  
You: Good Day!  
Bot: Have a great day!  
You: Bye!  
Bot: See you later!  
You: What you eat?  
Bot: I don't like eating anything because I'm a bot obviously!  
You:  
The window has a standard Windows title bar with minimize, maximize, and close buttons. A vertical scrollbar is visible on the right side of the chat area.