

St10460150

Representation

Cybersecurity Awareness Chatbot - Representation

Introduction

This chatbot is designed to provide cybersecurity awareness and advice. It interacts with users through a console-based interface, greets them with a voice message, and responds to cybersecurity-related queries. The chatbot also includes a typing effect to simulate real conversation.

Main Features

1. **ASCII Art Logo**

- When the chatbot starts, it displays a visually appealing ASCII art banner with the title “Cybersecurity Awareness Bot.”
- This gives the chatbot a more engaging and professional look.

2. **Voice Greeting**

- The chatbot uses a text-to-speech engine to greet the user.
- It welcomes them and asks how it can assist.
- This makes the chatbot feel more interactive and engaging.

3. **User Name Input**

- The chatbot asks for the user’s name before proceeding.
- If the user enters a blank name, the chatbot asks them to enter a valid name.
- Once a name is provided, it welcomes the user with a personalized greeting.

4. **Typing Effect Simulation**

- Instead of displaying all text instantly, the chatbot simulates a typing effect, printing letters one by one.
- This makes interactions feel more human-like.

5. **Chatbot Conversations**

- The chatbot is programmed to recognize and respond to a set of predefined cybersecurity-related questions.
- Example interactions include:
 - “How are you?” → The chatbot responds that it’s just a bot but is here to help.
 - “What’s your purpose?” → It explains that its goal is to raise cybersecurity awareness.
 - “What can I ask you about?” → It provides a list of topics such as password safety, phishing, and safe browsing.

6. **Cybersecurity Tips**

- Password Safety: The chatbot advises using strong passwords and enabling two-factor authentication.
- Phishing Awareness: It warns users to be cautious of emails or messages asking for personal details and to verify links before clicking.
- Safe Browsing: It recommends checking for HTTPS in website URLs, avoiding suspicious downloads, and keeping software updated.

7. **Exit Option**

- If the user types “exit”, the chatbot responds with a goodbye message and stops running.

How the Chatbot Works

- 1.The chatbot greets the user using text-to-speech.
- 2.It asks for the user’s name and provides a personalized welcome.
- 3.The chatbot waits for the user to enter a question or topic related to cybersecurity.
- 4.If the input matches a predefined topic, it provides relevant cybersecurity tips.

- 5.If the chatbot doesn't understand the input, it asks the user to rephrase the question.
- 6.The user can exit the chatbot by typing "exit."

Conclusion

This chatbot serves as an educational tool for promoting cybersecurity awareness. By incorporating text-based responses, voice output, and a typing effect, it provides a more interactive experience for users while offering valuable security advice.