

Chat bot in Python

Description:

In this folder you can find the following files:

1. The source code: ChatBot.py
2. The logo of my organization: CvijaLogo.png
3. The training dataset: chat.txt

The purpose of this application is to build a interactive Chat Bot using the chatterbot framework.

The chat bot is trained with input from the chat.txt file that contains some common phrases and when communicating with the bot, it senses the sentiment and looks for the right response.

In case that the chat bot is not trained on some questions, it responds with "Hello" or "How are you doing!" as default responses.

Installation of packages needed for running the chat bot in PyCharm you need:

- Python v3.10
- ChatterBot v1.0.8
- PyYAML v5.4.1
- SpeechRecognition v3.8.1
- Spacy v2.3.5
- Speech v0.5.2
- Pyttsx3 v2.90

User Interface:



- The user interface is consisted of three areas:

1. Organization logo
2. Conversation history area
3. Text input area for the user

Usage and features

Using the Chat Bot application is simple. The user can only input text into the input text area, and to send the inputted text the user should press the Enter button.

The robot will respond in both voice and written message.

Ways to improve

This is the first version of the chat bot application and it can be improved in three areas:

1. The User Interface can be improved to be more pleasant for the user.
2. The training dataset is rather small and the Chat Bot does not have all the answers that a user might ask.
3. The speed at which the Chat Bot responds depends on the machine where it is run, so a optimization is necessary in order to be able to run the application on every machine and have a good performance.