User guidance for chatbot

A chatbot is an intelligent piece of software that is capable of communicating and performing actions similar to a human. Chatbots are used a lot in customer interaction, marketing on social network sites and instantly messaging the client. There are two basic types of chatbot models based on how they are built; Retrieval based and Generative based models.

The dataset we will be using is 'intents.json'. This is a JSON file that contains the patterns we need to find and the responses we want to return to the user.

Prerequisites

The project requires you to have good knowledge of Python, Keras, and **Natural language processing (NLTK)**. Along with them, we will use some helping modules which you can download using the python-pip command.
pip install tensorflow, keras, pickle, nltk

- **Intents.json –** The data file which has predefined patterns and responses.
- **bot.py –** In this Python file, we wrote a script to build the model and train our chatbot.
- **Word.pkl –** This is a pickle file in which we store the words Python object that contains a list of our vocabulary.
- **Clas.pkl –** The classes pickle file contains the list of categories.
- **model.h5 –** This is the trained model that contains information about the model and has weights of the neurons.
- **interface.py –** This is the Python script in which we implemented GUI for our chatbot. Users can easily interact with the bot.
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Here are the 5 steps to create a chatbot in Python from scratch:

1. Import and load the data file
2. Preprocess data
3. Create training and testing data
4. Build the model
5. Predict the response

Finally user can do the following works,

- User open the chatbot and can put messages.
- Main purpose of this bot is user can ask for the location of goods, then bot will give the shelf numbers.
- After user type the message, he has to press the send button.
- Then bot will give the reply.
- Likewise user can put messages and chat with the bot.
- At last if user want to get the all details of shelves then he can enter the list of items and press the view button to see all.

References

- https://data-flair.training/blogs/python-chatbot-project/