ARTIFICIAL INTELLIGENCE

Phase 4:DEVELOPMENT PART 2

Chatbot in Python:

The Development of the Chat bot is nothing by added or by attaching various and more question with answer from the datasets that were given previously.

The chatbot development may be developed by many other ways and by more interesting ways to give up an idea.The idea might be created by enrolling the user to the Chatbot to produce more user .If more users are experienced a Chatbot the cahtbot will experience more number of questions if the question is valid or useful the asked question is added/ uploaded to the main database such that the questions to be answered.

Bots are made for a specific reason. A store would most likely want chatbot services that assists you in placing an order, while a telecom company will want to create a bot that can address customer service questions.

There are two categories of chatbots: one that works by following a series of rules, and another that uses artificial intelligence.

1. Rule-based chatbots

A rule-based bot can only comprehend a limited range of choices that it has been programmed with. Predefined rules define the course of the bot's conversation. Rule-based chatbots are easier to build as they use a simple true-false algorithm to understand user queries and provide relevant answers.

2. AI-based chatbots

This bot is equipped with an artificial brain, also known as artificial intelligence. It is trained using machine-learning algorithms and can understand open-ended queries. Not only does it comprehend orders, but it also understands the language. As the bot learns from the interactions it has with users, it continues to improve. The AI chatbot identifies the language, context, and intent, which then reacts accordingly.

PROGRAM FOR CHATBOT DEVELOPMENT

```python
import random
# Define responses
responses = {
 "hello": ["Hi there!", "Hello!", "Hey!"],
"how are you": ["I'm just a bot, but I'm doing fine.", "I don't have feelings, but I'm here to help!"],
 "bye": ["Goodbye!", "See you later!", "Bye bye!"],
"default": ["I'm not sure how to respond to that.", "Could you please rephrase that?", "I'm still learning!"]
}
# Function to get a response
 def get_response(message):
message = message.lower()
if message in responses:
return random.choice(responses[message])
else:
 return random.choice(responses["default"])
 # Main loop
 print("Chatbot: Hi there! How can I assist you? (type 'bye' to exit)")
while True:
 user_input = input("You: ")
 if user_input.lower() == "bye":
print("Chatbot: Goodbye!")
break
response = get_response(user_input)
print("Chatbot:", response)
```

SAMPLE OUTPUT FOR CHATBOT

```
Python 3.7.0 (v3.7.0:1bf9cc5093, Jun 27 2018, 04:06:47) [MSC v.1914 32 bit (Intel)] on win32
Type "copyright", "credits" or "license()" for more information.
>>>
 RESTART: C:\Users\rajesh\AppData\Local\Programs\Python\Python37-32\CHATBOT.py
Chatbot: Hi there! How can I assist you? (type 'bye' to exit)
You: hi
Chatbot: Hi there!
You: hello
Chatbot: Hi there!
You: how are you doing
Chatbot: i'm fine ,how about yourself?
You: i am feeling bliss
Chatbot: good have a nice day
You: thanks
Chatbot: Its my pleasure
You: bye
Chatbot: Goodbye!see you later
>>> |
```

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