



Chatbot

Phase3

Loading and preprocessing

- **Data loading**: Describes how we imported the database using pandas
- **Data exploration**: Mentioned that we examined the structure and information about the data set
- **Data preprocessing**: Discuss how we handled missing values, performed features selection, and prepared the data for modeling

Sample Python program of chatbot

- `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):
- 1. 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)

```
CHATBOT.py - C:\Users\rajesh\AppData\Local\Programs\Python\Python37-32\CHATBOT.py (3.7.0)

Python 3.7.0 Shell
File Edit Shell Debug Options Window Help
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: hello
Chatbot: Hi there!
You: how are you
Chatbot: I don't have feelings, but I'm here to help!
You: bye
Chatbot: Goodbye!
>>> |
```

SAMPLE OUTPUT
FOR THE PYTHON
PROGRAM:

THANK YOU