

chatbot

May 11, 2023

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[2]: import re
import random
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[3]: class RuleBot:
    #negative response
    negative_response=("no","nah","nope","naw","not a chance","sorry")
    #exit consversisation keys
    exit_commands=("quite","pause","exit","bye","goodbye","see you","not a
↪chance","tata",)
    #random question from bot
    random_question=("why are you here?",
                    "ARE YOU OK?",
                    "Tell me more",
                    "this is good continue",
                    "how may i help you more",
                    "anything else i can help you with?"
                    )
    def __init__(self):
        self.basic = {'describe_yourself': r'.*\s*your name',
                      'answer_why_bot': 'why',
                      'about_bot': 'bot'
                      }

    def greet(self):
        self.name = input("what is your name?\n")
        will_help= input(
            f"hi {self.name}, I am a bot how can i help you?\n")

        if will_help in self.negative_response:
            print("ok, have a nice day!")
            return
        self.chat()

    def make_exit(self,reply):
        for command in self.exit_commands:
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        if reply==command:
            print("Okay, have a nice day!")
            return True

def chat(self):
    reply=input(random.choice(self.random_question)).lower()

    while not self.make_exit(reply):
        reply = input(self.match_reply(reply))

def match_reply(self, reply):
    for key, value in self.basic.items():
        intent = key
        regex_pattern = value
        found_match = re.match(regex_pattern, reply)
        if found_match and intent == 'describe_yourself':
            return self.describe_yourself()
        elif found_match and intent == "answer_why_bot":
            return self.answer_why_bot()
        elif found_match and intent == "about_bot":
            return self.about_bot()

    if not found_match:
        return self.no_match_intent()

def describe_yourself(self):
    responses=("I am AI Bot trained by rakesh by using some of the
↳algorithm and by using machine learning Technology anythingelse?")
    return responses

def answer_why_bot(self):
    responses=("bot are trained by humans which can give you answer on
↳which they are trained")
    return random.choice(responses)

def about_bot(self):
    responses=("about bot is that i can answer and collect data to user")
    return "happy happy end"

def no_match_intent(self):
    responses=(
        "please tell me more.\n","Tell me more.\n","How can i help
↳you?.\n",
        "How can i help you more?.\n", "I see, can you eloborate?
↳\n", "Interesting, can you tell me more",

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        "I see. how do think like that?\n",
    )
    return random.choice(responses)
```

```
Readybot = RuleBot()
Readybot.greet()
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what is your name?

ram

hi ram, I am a bot how can i help you?

what day is today

Tell me more i am asking u

How can i help you?.

your name

I am AI Bot trained by rakesh by using some of the algorithm and by using machine learning Technology anything else? yes

Interesting, can you tell me more ok bye

Tell me more.

bye

Okay, have a nice day!

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