Chatbot Using Python

Chatbot.py **#Python Chatbot by Junaid Khateeb** import re import long_responses as long #long responses is another python file created by us, it is not a default one. YOu will need to have that too in the same location as the main program. def message_probability(user_message, recognised_words, single_response=False, required_words=[]): message_certainty = 0 has required words = True # Counts how many words are present in each predefined message for word in user_message: if word in recognised_words: message_certainty += 1 # Calculates the percent of recognised words in a user message percentage = float(message_certainty) / float(len(recognised_words)) # Checks that the required words are in the string for word in required words: if word not in user_message: has_required_words = False

break

```
# Must either have the required words, or be a single response
  if has_required_words or single_response:
    return int(percentage * 100)
  else:
    return 0
def check_all_messages(message):
  highest_prob_list = {}
  # Simplifies response creation / adds it to the dict
  def response(bot_response, list_of_words, single_response=False, required_words=[]):
    nonlocal highest_prob_list
    highest_prob_list[bot_response] = message_probability(message, list_of_words,
single_response, required_words)
  # Responses
  response('Hello and Namaskar', ['hello', 'hi', 'hey', 'sup', 'heyo', 'hola', 'wassup', 'hii'],
single response=True)
  response('See you!', ['bye', 'goodbye'], single_response=True)
  response('I\'m doing fine, and you?', ['how', 'are', 'you', 'doing'],
required_words=['how'])
  response('You\'re welcome!', ['thank', 'thanks'], single response=True)
  response('Thank you!', ['i', 'love', 'python', 'coding'], required_words=['python'])
```

```
9321033048
  # Longer responses
  response(long.R_ADVICE, ['give', 'advice'], required_words=['advice'])
  response(long.R_EATING, ['what', 'you', 'eat'], required_words=['you', 'eat'])
  response(long.R_TRAINING, ['you', 'like', 'training', 'course'], required_words=['like'])
  response(long.R_TRAINER, ['who', 'trainer', 'teacher', 'coach'], required_words=['who'])
  best_match = max(highest_prob_list, key=highest_prob_list.get)
  # print(highest_prob_list)
  # print(f'Best match = {best_match} | Score: {highest_prob_list[best_match]}')
  return long.unknown() if highest_prob_list[best_match] < 1 else best_match
# Used to get the response
def get_response(user_input):
  split_message = re.split(r'\s+|[,;?!.-]\s*', user_input.lower())
  response = check_all_messages(split_message)
  return response
#codes by Junaid Khateeb
# Testing the response system
while True:
  print('Bot: ' + get_response(input('You: ')))
long_responses.py
import random
```

3 | Download the 'Khateeb Classes'

Learn Python / Machine Learning / Al with Junaid Khateeb. Call/Whatsapp: +91-9820183864 / +91-

```
R_EATING = "I don't like eating anything because I'm a bot obviously!"
```

R_ADVICE = "If I were you, I would go to the internet and type exactly what you wrote there!"

R_TRAINING = "Oh, I am loving the training"

R_TRAINER = "Junaid Khateeb from Mumbai is the trainer on this course, do check www.khateebstudyabroad.com"

def unknown():

```
response = ["Could you please re-phrase that? ",
```

"...",

random.randrange(4)] #randrange cvalue has to be equal to the number of responses that we have used.

return response

#codes by Junaid Khateeb

[&]quot;Sounds about right.",

[&]quot;What does that mean?"

[&]quot;Sorry, I am unable to understand that,I am still a young bot"][