

Date: 23 October 2023

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Phase: 4

## Adding new data to the existing dataset

I have attached the dataset in my GitHub

GitHub link: [https://github.com/dhanasekarenb/IBM\\_AI\\_Chatbot.git](https://github.com/dhanasekarenb/IBM_AI_Chatbot.git)

## Python Code:

```
from flask import Flask, request, render_template

import numpy as np

import string

from nltk.corpus import stopwords

import pandas as pd

import matplotlib.pyplot as plt

import seaborn as sns

from sklearn.feature_extraction.text import CountVectorizer

from sklearn.tree import DecisionTreeClassifier

from sklearn.feature_extraction.text import TfidfTransformer, TfidfVectorizer

from sklearn.pipeline import Pipeline

app = Flask(__name__)

# importing the dataset

df = pd.read_csv(r"C:\Users\zerobroz\Desktop\AI_Phase4\data_set\dialogs.txt", sep='\t')

#add column names

df.columns=['Questions', 'Answers']
```

```

# Function for converting upper to lower case

def cleaner(x):

    return ''.join([a for a in x if a not in string.punctuation]).lower()


# Load your pre-trained pipeline model

Pipe = Pipeline([

    ('bow', CountVectorizer(analyzer=cleaner)),

    ('tfidf', TfidfTransformer()),

    ('classifier', DecisionTreeClassifier())

])


# Load your pre-trained model weights

Pipe.fit(df['Questions'], df['Answers'])


# Define route for the home page

@app.route('/')

def index():

    return render_template('index.html')


# Define route for processing user input and generating chatbot response

@app.route('/get_response', methods=['POST'])

def get_response():

    user_input = request.form['user_input']

    response = Pipe.predict([user_input])[0]

    return render_template('index.html', user_input=user_input, response=response)


if __name__ == '__main__':

    app.run(debug=True)

```

## HTML file:

```
<!DOCTYPE html>

<html lang="en">

<head>

  <meta charset="UTF-8">

  <meta name="viewport" content="width=device-width, initial-scale=1.0">

  <title>Chatbot</title>

  <link rel="stylesheet" href="{{ url_for('static', filename='styles.css') }}">

  <link rel="preconnect" href="https://fonts.googleapis.com">

  <link rel="preconnect" href="https://fonts.gstatic.com" crossorigin>

  <link href="https://fonts.googleapis.com/css2?family=Play&display=swap" rel="stylesheet">

</head>

<body>

  <div class="container">

    <div class="word-cloud">

      <h2>Popular keywords</h2>

      <!-- Add your most used words content here -->

      <ul>

        <li>hi</li>

        <li>hey</li>

        <li>hello</li>

        <li>Tell me a joke</li>

        <li>who created you?</li>

        <li>what is the meaning of life?</li>

        <li>tell me a fun fact.</li>

        <li>another fun fact.</li>

        <li>what do you like to do in your free time?</li>

        <li>what languages do you speak?</li>

      </ul>

    </div>

  </div>

</body>

</html>
```

```

        <li>tell me a riddle.</li>

        <li>another riddle.</li>
    </ul>
</div>
<div class="chat-box">
    <h1>Chatbot</h1>
    <div class="chat-container">
        {% if user_input %}
        <div class="message user-message">
            You: {{ user_input }}
        </div>
        {% endif %}
        {% if response %}
        <div class="message bot-message">
            Bot: {{ response }}
        </div>
        {% endif %}
    </div>
    <form id="user-form" method="POST" action="/get_response">
        <input type="text" id="user_input" name="user_input" placeholder="Type your
message...">
        <button type="submit">Send</button>
    </form>
</div>
</div>
</body>

</html>

```

## CSS File:

```
body {  
  /* font-family: 'Times New Roman', Times, serif; */  
  font-family: 'Play', sans-serif;  
  margin: 0;  
  padding: 0;  
  background-color: #f2f2f2;  
}
```

```
.container {  
  display: grid;  
  grid-template-columns: 1fr 2fr;  
  grid-gap: 20px;  
  max-width: 1200px;  
  height: 700px;  
  margin: 0 auto;  
  padding: 20px;  
}
```

```
.word-cloud {  
  background-color: #fff;  
  padding: 50px;  
  box-shadow: 0 4px 8px rgba(0, 0, 0, 0.1);  
}
```

```
.chat-box {  
  background-color: #fff;  
  padding: 20px;  
  box-shadow: 0 4px 8px rgba(0, 0, 0, 0.1);  
}
```

```
h1 {  
  font-size: 24px;  
  margin-bottom: 20px;  
}
```

```
.chat-container {  
  height: 500px;  
  overflow-y: auto;  
  padding: 10px;  
  border: 1px solid #ccc;  
  margin-bottom: 20px;  
}
```

```
.message {  
  margin-bottom: 10px;  
  padding: 10px;  
  border-radius: 5px;  
}
```

```
.user-message {  
  background-color: #4caf50;  
  color: #fff;  
  text-align: right;  
}
```

```
.bot-message {  
  background-color: #008CBA;  
  color: #fff;  
}
```

```
form {  
  display: flex;  
  align-items: center;  
  
}
```

```
input[type="text"] {  
  flex: 1;  
  padding: 10px;  
  font-size: 16px;  
  border: 1px solid #ccc;  
  border-radius: 5px;  
}
```

```
button {  
  padding: 10px 20px;  
  font-size: 16px;  
  background-color: #4caf50;  
  color: #fff;  
  border: none;  
  border-radius: 5px;  
  margin-left: 10px;  
  cursor: pointer;  
}
```

```
button:hover {  
  background-color: #45a049;  
}
```

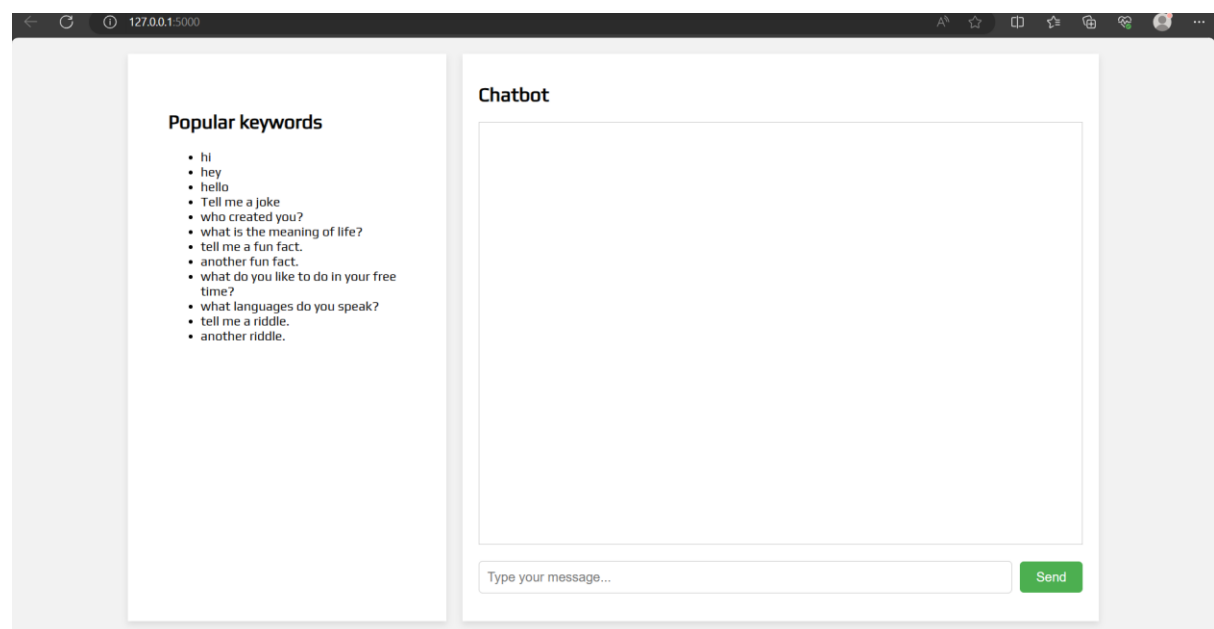
```
.user-message {  
  color: solid black;  
}
```

```
.bot-message {  
    color: solid black;  
}
```

## OUTPUT:

```
(pingu) PS C:\Users\zerobroz> & C:/Users/zerobroz/.conda/envs/pingu/python.exe c:/Users/zerobroz/Desktop/AI_Phase4/app.py  
* Serving Flask app 'app'  
* Debug mode: on  
WARNING: This is a development server. Do not use it in a production deployment. Use a production WSGI server instead.  
* Running on http://127.0.0.1:5000  
Press CTRL+C to quit  
* Restarting with stat  
* Debugger is active!  
* Debugger PIN: 558-473-929
```

After pasting the <http://127.0.0.1:5000> in browser.





After give in the input.

