**SKINCARE AI CHATBOT**

**AIM:**

To implement Skincare AI offers personalized advice for healthy, glowing skin based on your unique needs and concerns, ensuring you achieve your skincare goals with expert guidance.

**DESCRIPTION:**

Skincare AI is your virtual skincare consultant, providing tailored advice and solutions for all your skincare needs. It analyzes your skin type, concerns, and goals to recommend the best products and routines. From cleansing to moisturizing, sun protection to exfoliation, it guides you through each step of a comprehensive skincare regimen. Skincare AI emphasizes the importance of understanding your skin's unique characteristics, promoting healthy habits and lifestyle choices for long-term skin health. Whether you're battling acne, combating aging signs, or seeking a radiant complexion, Skincare AI delivers personalized recommendations to help you achieve your skincare aspirations. With its user-friendly interface and expert insights, it empowers you to make informed decisions and embrace a skincare routine that suits your individual preferences and requirements. Trust Skincare AI to be your dedicated skincare companion, offering reliable guidance and support on your journey to healthier, happier skin.

**CODE:**

**UI:**

<!DOCTYPE html>

<html lang="en">

<head>

<meta charset="UTF-8">

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

<title>Skincare Chatbot</title>

<style>

body {

font-family: 'Times New Roman', Times, serif;

margin: 0;

padding: 0;

background-color: #e76f51;

}

.container {

max-width: 600px;

margin: 50px auto;

padding: 20px;

background-color: #fff;

border-radius: 8px;

box-shadow: 0 0 10px rgba(0, 0, 0, 0.1);

}

h1 {

color: #fff;

text-align: center;

}

form {

margin-top: 30px;

display: flex;

justify-content: center;

}

input[type="text"] {

width: 70%;

padding: 10px;

border: 1px solid #ccc;

border-radius: 5px;

font-size: 16px;

font-family: 'Times New Roman', Times, serif;

outline: none;

}

button {

padding: 10px 20px;

background-color: #264653;

color: #fff;

border: none;

border-radius: 5px;

cursor: pointer;

font-size: 16px;

font-family: 'Times New Roman', Times, serif;

margin-left: 10px;

}

button:hover {

background-color: #2a9d8f;

color:#fff;

}

#response {

margin-top: 20px;

margin-left: 70px;

margin-right: 70px;

padding: 50px;

align-items: center;

background-color: #e9c46a;

border-radius: 5px;

font-size: 16px;

}

footer{

text-align: center;

font-size: 15px;

color:#fff;

font-family: 'Times New Roman', Times, serif;

padding-top:20%;

}

</style>

</head>

<body>

<h1>SIMPLE SKINCARE CHATBOT!</h1>

<p style="text-align:center;font-size:20px;color:#fff">Welcome to Skincare Bot</p>

<form action="/chatbot" method="post">

<input type="text" name="user\_input" placeholder="You can ask me anything about skincare.">

<button type="submit">Ask</button>

</form>

<div id="response">

<script>

const form = document.querySelector('form');

const responseDiv = document.getElementById('response');

form.addEventListener('submit', async (e) => {

e.preventDefault();

const formData = new FormData(form);

const user\_input = formData.get('user\_input');

const response = await fetch('/chatbot', {

method: 'POST',

body: new URLSearchParams(formData)

});

const responseData = await response.text();

responseDiv.innerText = responseData;

});

</script>

</div>

</body>

<footer>

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</footer>

</html>

**PYTHON:**

from flask import Flask, render\_template, request

import pandas as pd

import difflib

app = Flask(\_name\_)

# Function to read dataset file and populate skincare\_responses dictionary

def read\_dataset(file\_path):

skincare\_responses = {}

with open(file\_path, 'r') as file:

for line in file:

if '?' in line:

question, answer = line.strip().split(',')

skincare\_responses[question.strip().lower()] = answer.strip()

return skincare\_responses

# Function to handle user queries

def skincare\_chatbot(query, skincare\_responses):

query = query.lower()

best\_match = difflib.get\_close\_matches(query, skincare\_responses.keys(), n=1, cutoff=0.6)

if best\_match:

return skincare\_responses[best\_match[0]]

else:

return "I'm sorry, I'm not sure about that. Could you please ask something else?"

@app.route('/')

def index():

return render\_template('index.html')

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

def chatbot():

user\_input = request.form['user\_input']

dataset\_file = "dataset.csv" # Assuming dataset.csv exists in the same directory

skincare\_responses = read\_dataset(dataset\_file)

response = skincare\_chatbot(user\_input, skincare\_responses)

return response

if \_name\_ == '\_main\_':

app.run(debug=True)

**OUTPUT:**

**A screenshot of a chatbot

Description automatically generated**

**A screenshot of a chatbot

Description automatically generated**

**RESULT:**

Thus, the Implementation of AI skincare chatbot is completed successfully. With its user-friendly interface, it provides recommendations for skincare routines and products, covering everything from cleansing to sun protection.