**Chatbot Report**

1. **Description**

MicoTalk AI is a cutting-edge, interactive chatbot designed to provide real-time, intelligent conversations. Built using modern web technologies like HTML, CSS, and JavaScript, it integrates advanced AI models through APIs such as OpenAI or OpenRouter. The chatbot supports voice input, file and image uploads, and delivers natural language responses with a sleek and user-friendly interface. With features like dark mode, typing animations, and chat history, MicoTalk AI offers an engaging and accessible experience suitable for a variety of applications, including customer support, education, and personal assistance.

**DeepSeek-R1 AI model**

DeepSeek is a cutting-edge AI research initiative focused on developing advanced open-source tools and large language models (LLMs) for tasks such as natural language understanding, vision-language processing, code generation, and intelligent retrieval. It includes various powerful sub-projects aimed at enhancing AI-driven applications. One of its key components, DeepSeek-R1, is a highly advanced semantic search engine framework designed to move beyond traditional keyword-based search. It uses state-of-the-art AI techniques, including Natural Language Processing and vector-based semantic embeddings, to understand the meaning and context behind user queries. DeepSeek-R1 enables fast, scalable, and highly accurate search capabilities across diverse data sources such as databases, documents, and APIs. It is ideal for use in enterprise search, e-commerce platforms, knowledge bases, and more, and offers easy integration through APIs and SDKs for both web and mobile applications.

1. **Code:**

**Codes of web page**

<!DOCTYPE html>

<html lang="en">

<head>

<meta charset="UTF-8" />

<meta name="viewport" content="width=device-width, initial-scale=1" />

<title>MicoTalk AI - Smart Chatbot Assistant</title>

<!-- Tailwind CDN -->

<script src="https://cdn.tailwindcss.com"></script>

<!-- Custom Tailwind Config for Poppins -->

<script>

tailwind.config = {

theme: {

extend: {

fontFamily: {

poppins: ['Poppins', 'sans-serif'],

},

colors: {

niibsBlue: '#003366',

niibsLight: '#e6f0ff',

niibsWhite: '#f9fbfc',

},

}

}

}

</script>

<!-- Poppins Font -->

<link href="https://fonts.googleapis.com/css2?family=Poppins:wght@400;600&display=swap" rel="stylesheet" />

<style>

/\* Scroll Bar Animation \*/

#scrollIndicator {

transition: width 0.25s ease, background-color 0.25s ease;

}

@keyframes fade-in {

from { opacity: 0; transform: translateY(30px); }

to { opacity: 1; transform: translateY(0); }

}

.animate-fade-in {

animation: fade-in 1.5s ease-in;

}

</style>

</head>

<body class="font-poppins bg-gradient-to-br from-blue-100 to-white text-gray-800">

<!-- Scroll Progress Indicator -->

<div id="scrollIndicator" class="fixed top-0 left-0 h-1 bg-indigo-500 z-[9999]"></div>

<!-- Updated Navbar -->

<header class="bg-white shadow-md sticky top-0 z-50 px-6 py-4 flex justify-between items-center transition duration-300">

<h1 class="text-2xl font-bold text-indigo-700">MicoTalk AI</h1>

<nav class="space-x-6 font-medium text-gray-700">

<a href="#features" class="hover:text-indigo-600 px-4 py-2 rounded transition duration-200">Home</a>

<a href="#about" class="hover:text-indigo-600 px-4 py-2 rounded transition duration-200">About</a>

<a href="#start" class="hover:text-indigo-600 px-4 py-2 rounded transition duration-200">Contact</a>

<a href="#features" class="hover:text-indigo-600 px-4 py-2 rounded transition duration-200">Features</a>

</nav>

</header>

<!-- Hero Section -->

<section id="start" class="flex flex-col-reverse md:flex-row items-center justify-center px-6 py-20 bg-gradient-to-br from-white to-blue-100 text-center md:text-left animate-fade-in">

<div class="md:w-1/2">

<h2 class="text-4xl md:text-5xl font-bold text-indigo-700 mb-4">Talk Smart. Talk Fast.</h2>

<p class="text-lg mb-6">Meet MicoTalk – your intelligent assistant chatbot for conversations, files, images, and more. Ask anything, anytime.</p>

<button onclick="location.href='chatbot.html'" class="bg-indigo-600 text-white px-6 py-3 rounded-full shadow-md hover:bg-indigo-800 transition">Try Chatbot</button>

</div>

<img src="https://cdn-icons-png.flaticon.com/512/4712/4712034.png" alt="Chatbot Illustration" class="w-72 mb-8 md:mb-0 md:ml-12 animate-bounce" />

</section>

<!-- Features -->

<section id="features" class="py-20 px-6 bg-white">

<h3 class="text-3xl md:text-4xl font-bold text-indigo-700 text-center mb-12">Features</h3>

<div class="max-w-6xl mx-auto grid gap-8 grid-cols-1 md:grid-cols-3">

<div class="bg-blue-50 rounded-xl shadow-lg p-6 text-center hover:-translate-y-2 transition transform">

<img src="https://cdn-icons-png.flaticon.com/512/724/724715.png" alt="Upload Files" class="w-16 mx-auto mb-4">

<h4 class="text-xl font-semibold text-indigo-700 mb-2">File Upload</h4>

<p>Easily upload PDF, DOCX, images, or text files to get instant insights from MicoTalk AI.</p>

</div>

<div class="bg-blue-50 rounded-xl shadow-lg p-6 text-center hover:-translate-y-2 transition transform">

<img src="https://cdn-icons-png.flaticon.com/512/4333/4333609.png" alt="Voice Input" class="w-16 mx-auto mb-4">

<h4 class="text-xl font-semibold text-indigo-700 mb-2">Voice Input</h4>

<p>Talk to the chatbot using your voice. Our voice-to-text feature makes chatting faster and easier.</p>

</div>

<div class="bg-blue-50 rounded-xl shadow-lg p-6 text-center hover:-translate-y-2 transition transform">

<img src="https://cdn-icons-png.flaticon.com/512/4712/4712054.png" alt="Smart Responses" class="w-16 mx-auto mb-4">

<h4 class="text-xl font-semibold text-indigo-700 mb-2">Smart Responses</h4>

<p>Receive intelligent, context-aware responses powered by advanced AI. Ask anything!</p>

</div>

</div>

</section>

<!-- About -->

<section id="about" class="py-20 px-6 bg-blue-100">

<h3 class="text-3xl md:text-4xl font-bold text-indigo-700 text-center mb-12">About Us</h3>

<div class="max-w-6xl mx-auto flex flex-col md:flex-row items-center gap-10">

<div class="md:w-1/2">

<img src="chatbot1.png" alt="About MicoTalk" class="rounded-xl shadow-md w-full">

</div>

<div class="md:w-1/2">

<p class="text-lg leading-relaxed text-gray-700">

MicoTalk AI is an innovative chatbot solution designed to make communication smarter and faster.

Our mission is to provide a seamless digital assistant experience that helps users chat, upload files,

and get intelligent responses instantly. Backed by cutting-edge AI technology

, we aim to revolutionize

how people interact with software—making it more human, intuitive, and productive.

</p>

</div>

</div>

</section>

<!-- Footer -->

<footer class="bg-white text-center py-6 text-gray-500 text-sm mt-20 shadow-inner">

&copy; 2025 MicoTalk AI. All rights reserved.

</footer>

<!-- Floating Chat Bubble -->

<a href="chatbot.html" class="fixed bottom-6 right-6 w-16 h-16 bg-indigo-700 rounded-full flex items-center justify-center shadow-lg hover:scale-110 transition" title="Chat with MicoTalk AI">

<img src="https://cdn-icons-png.flaticon.com/512/4712/4712034.png" alt="Chatbot" class="w-9 h-9">

</a>

<!-- Custom Animation -->

<style>

@keyframes fade-in {

from { opacity: 0; transform: translateY(30px); }

to { opacity: 1; transform: translateY(0); }

}

.animate-fade-in {

animation: fade-in 1.5s ease-in;

}

</style>

<!-- Scroll Progress Script -->

<script>

const scrollIndicator = document.getElementById('scrollIndicator');

window.addEventListener('scroll', () => {

const scrollTop = window.scrollY;

const docHeight = document.documentElement.scrollHeight - window.innerHeight;

const scrollPercent = (scrollTop / docHeight) \* 100;

scrollIndicator.style.width = scrollPercent + '%';

// Change color based on scroll progress

if (scrollPercent < 33) {

scrollIndicator.style.backgroundColor = '#60a5fa'; // sky-400

} else if (scrollPercent < 66) {

scrollIndicator.style.backgroundColor = '#6366f1'; // indigo-500

} else {

scrollIndicator.style.backgroundColor = '#8b5cf6'; // violet-500

}

});

</script>

</body>

</html>

**Codes of chatbot**

<!DOCTYPE html>

<html lang="en">

<head>

<meta charset="UTF-8" />

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

<title>MicoTalk AI</title>

<link rel="stylesheet" href="https://cdnjs.cloudflare.com/ajax/libs/twitter-bootstrap/4.3.1/css/bootstrap.min.css">

<link rel="stylesheet" href="https://cdn.jsdelivr.net/npm/bootstrap-icons@1.10.5/font/bootstrap-icons.css">

<script src="https://cdn.jsdelivr.net/npm/marked/marked.min.js"></script>

<style>

body {

margin: 0;

background: url('https://images.unsplash.com/photo-1517511620798-cec17d428bc0') no-repeat center center fixed;

background-size: cover;

font-family: 'Segoe UI', sans-serif;

}

.chat-wrapper {

height: 100vh;

background-color: rgba(255, 255, 255, 0.9);

display: flex;

justify-content: center;

align-items: center;

}

.chat-box {

width: 100%;

max-width: 1000px;

height: 90vh;

border-radius: 15px;

display: flex;

flex-direction: column;

background-color: #ffffff;

box-shadow: 0 10px 25px rgba(0, 0, 0, 0.2);

animation: fadeInUp 0.8s ease;

}

.chat-header {

padding: 15px;

background: #4a90e2;

color: #fff;

border-top-left-radius: 15px;

border-top-right-radius: 15px;

display: flex;

align-items: center;

}

.chat-header img {

height: 40px;

margin-right: 10px;

}

.chat-container {

flex: 1;

overflow-y: auto;

padding: 20px;

background-color: #f7f7f7;

}

.message {

max-width: 80%;

margin: 10px 0;

padding: 10px 15px;

border-radius: 15px;

position: relative;

display: flex;

align-items: flex-end;

}

.user-message {

background: #DCF8C6;

margin-left: auto;

border-bottom-right-radius: 5px;

flex-direction: row-reverse;

}

.bot-message {

background: #fff;

margin-right: auto;

border-bottom-left-radius: 5px;

}

.message-avatar {

width: 35px;

height: 35px;

border-radius: 50%;

margin: 0 10px;

}

.timestamp {

font-size: 0.75rem;

color: #666;

margin-top: 5px;

}

.input-group {

border-top: 1px solid #ccc;

padding: 10px;

background: #fff;

}

.animated-input {

border-radius: 25px;

padding: 12px 18px;

transition: all 0.3s ease;

box-shadow: inset 0 0 5px rgba(0,0,0,0.05);

font-size: 1rem;

}

.animated-input:focus {

outline: none;

box-shadow: 0 0 5px rgba(74,144,226,0.6);

border-color: #4a90e2;

background-color: #f9f9f9;

}

.btn-send, .btn-mic {

border-radius: 20px;

margin-left: 5px;

}

.loader {

border: 4px solid #f3f3f3;

border-top: 4px solid #3498db;

border-radius: 50%;

width: 25px;

height: 25px;

animation: spin 1s linear infinite;

}

input[type="file"] {

display: none;

}

label[for="fileUpload"] {

cursor: pointer;

margin-left: 10px;

font-size: 1.3rem;

color: #555;

}

.icon-animated:hover {

transform: scale(1.2);

}

@keyframes spin {

0% { transform: rotate(0deg); }

100% { transform: rotate(360deg); }

}

@keyframes fadeInUp {

from { opacity: 0; transform: translateY(20px); }

to { opacity: 1; transform: translateY(0); }

}

</style>

</head>

<body>

<div class="chat-wrapper">

<div class="chat-box" id="dropZone">

<div class="chat-header">

<img src="https://cdn-icons-png.flaticon.com/512/4712/4712109.png" alt="Bot Icon" />

<h3>MicoTalk AI</h3>

</div>

<div class="chat-container" id="chatContainer"></div>

<div class="input-group d-flex align-items-center">

<input type="text" id="userInput" class="form-control animated-input" placeholder="Type your message..." onkeypress="if(event.keyCode === 13) sendMessage()" />

<input type="file" id="fileUpload" accept="image/\*" onchange="handleFileUpload(event)">

<label for="fileUpload"><i class="bi bi-paperclip icon-animated"></i></label>

<button class="btn btn-secondary btn-mic icon-animated" onclick="startVoiceInput()"><i class="bi bi-mic-fill"></i></button>

<button class="btn btn-primary btn-send icon-animated" onclick="sendMessage()"><i class="bi bi-send-fill"></i></button>

</div>

</div>

</div>

<script>

async function sendMessage() {

const input = document.getElementById('userInput');

const userMessage = input.value.trim();

const chatContainer = document.getElementById('chatContainer');

if (!userMessage) return;

addMessage(userMessage, 'user');

input.value = '';

const loaderDiv = document.createElement('div');

loaderDiv.className = 'message bot-message';

loaderDiv.innerHTML = `

<img src="https://cdn-icons-png.flaticon.com/512/4712/4712109.png" class="message-avatar" />

<div class="loader"></div>

`;

chatContainer.appendChild(loaderDiv);

chatContainer.scrollTop = chatContainer.scrollHeight;

try {

const response = await fetch('https://openrouter.ai/api/v1/chat/completions', {

method: 'POST',

headers: {

'Authorization': 'Bearer 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',

'HTTP-Referer': 'https://www.sitename.com',

'X-Title': 'SiteName',

'Content-Type': 'application/json',

},

body: JSON.stringify({

model: 'deepseek/deepseek-r1:free',

messages: [{ role: 'user', content: userMessage }],

}),

});

if (!response.ok) throw new Error(`HTTP error! Status: ${response.status}`);

const data = await response.json();

const botResponse = data.choices?.[0]?.message?.content || 'No response received.';

loaderDiv.remove();

addMessage(marked.parse(botResponse), 'bot');

} catch (error) {

loaderDiv.remove();

addMessage(`Error: ${error.message}`, 'bot');

} finally {

chatContainer.scrollTop = chatContainer.scrollHeight;

}

}

function addMessage(content, sender) {

const chatContainer = document.getElementById('chatContainer');

const messageDiv = document.createElement('div');

const avatarUrl = sender === 'user'

? 'https://cdn-icons-png.flaticon.com/512/149/149071.png'

: 'https://cdn-icons-png.flaticon.com/512/4712/4712109.png';

messageDiv.className = `message ${sender}-message`;

messageDiv.innerHTML = `

<img src="${avatarUrl}" class="message-avatar" />

<div>

${content}

<div class="timestamp">${new Date().toLocaleTimeString([], { hour: '2-digit', minute: '2-digit' })}</div>

</div>

`;

chatContainer.appendChild(messageDiv);

}

function handleFileUpload(event) {

const file = event.target.files[0];

if (!file) return;

const reader = new FileReader();

reader.onload = function(e) {

const image = `<img src="${e.target.result}" style="max-width: 200px; border-radius: 10px;" />`;

addMessage(image, 'user');

};

reader.readAsDataURL(file);

}

function startVoiceInput() {

if (!('webkitSpeechRecognition' in window)) {

alert("Voice recognition not supported.");

return;

}

const recognition = new webkitSpeechRecognition();

recognition.lang = 'en-US';

recognition.interimResults = false;

recognition.maxAlternatives = 1;

recognition.start();

recognition.onresult = function(event) {

document.getElementById('userInput').value = event.results[0][0].transcript;

sendMessage();

};

recognition.onerror = function(event) {

alert("Voice input error: " + event.error);

};

}

// Drag & Drop Upload

const dropZone = document.getElementById('dropZone');

dropZone.addEventListener('dragover', (e) => {

e.preventDefault();

dropZone.style.background = '#eef6ff';

});

dropZone.addEventListener('dragleave', () => {

dropZone.style.background = '';

});

dropZone.addEventListener('drop', (e) => {

e.preventDefault();

dropZone.style.background = '';

const file = e.dataTransfer.files[0];

if (file && file.type.startsWith('image/')) {

const reader = new FileReader();

reader.onload = function(event) {

const img = `<img src="${event.target.result}" style="max-width: 200px; border-radius: 10px;" />`;

addMessage(img, 'user');

};

reader.readAsDataURL(file);

}

});

</script>

</body>

</html>

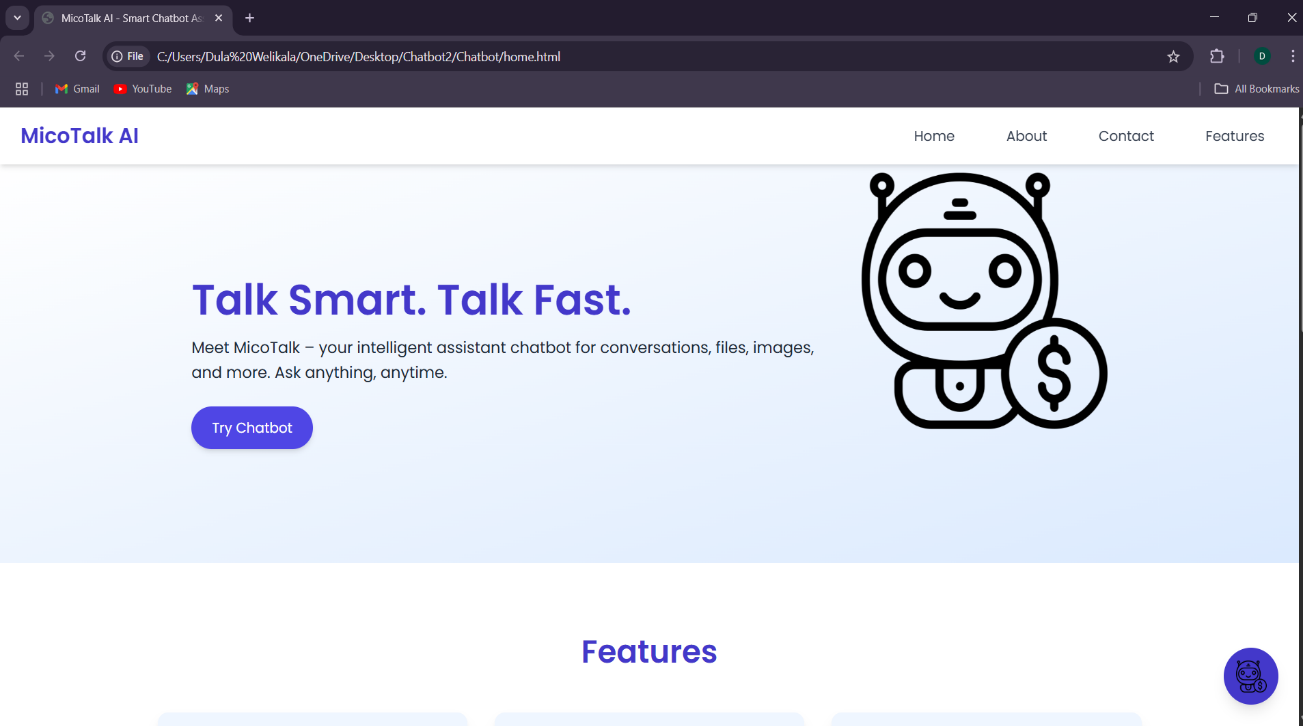
1. **Guide lines**

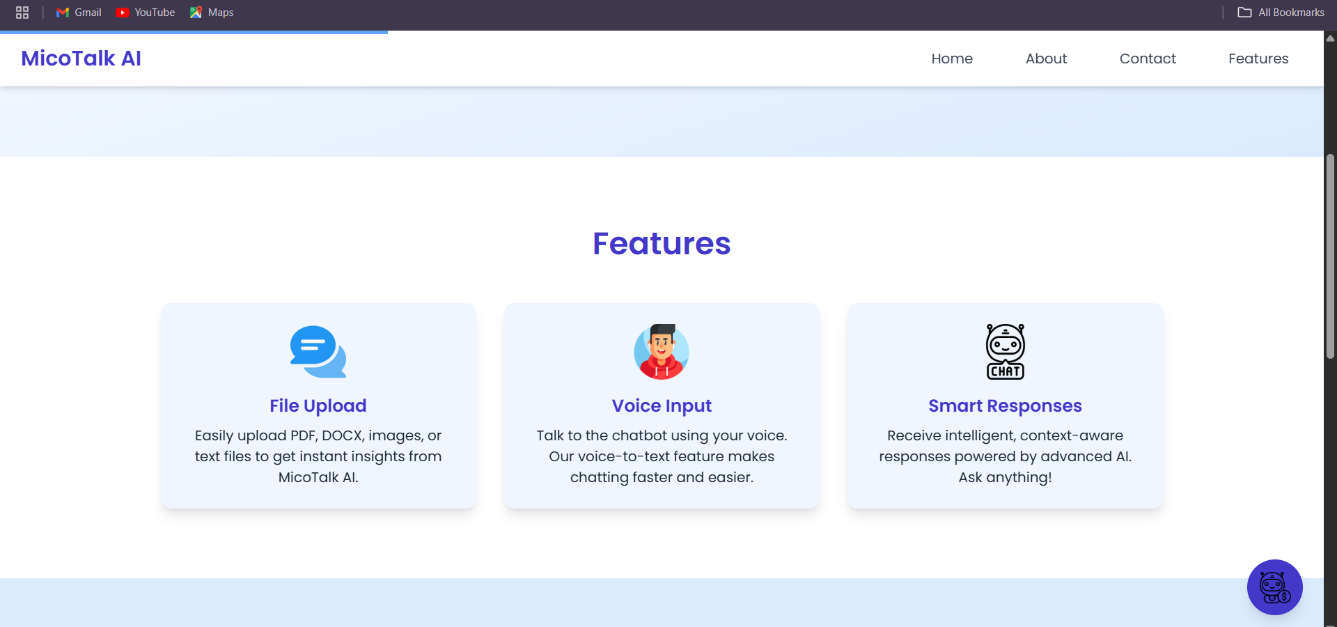
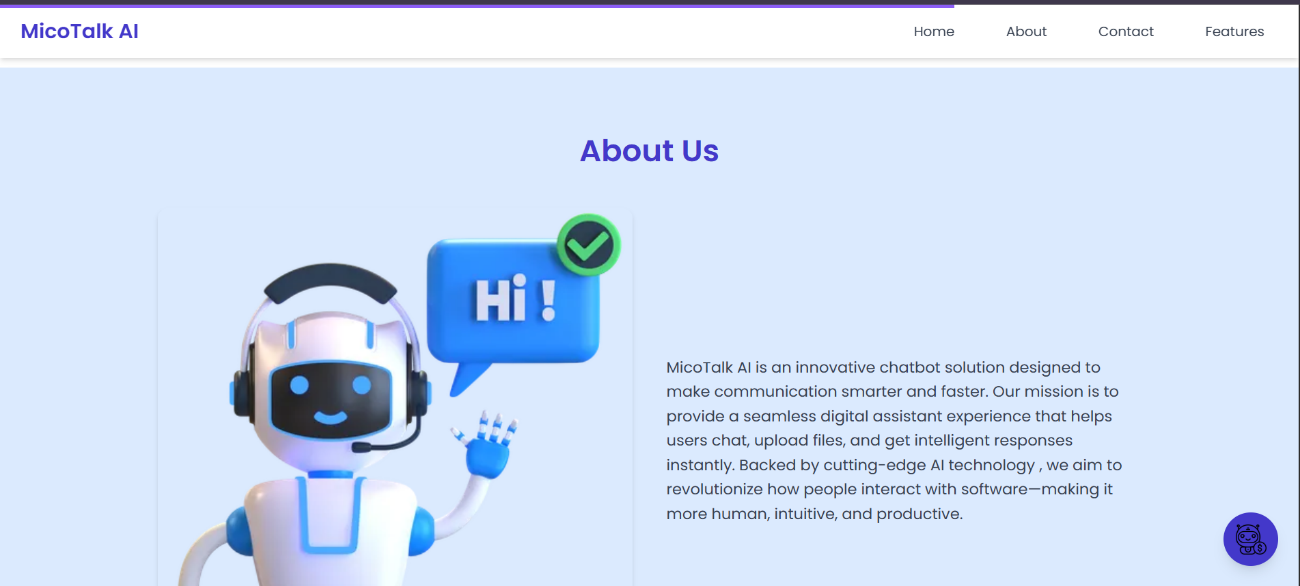
**Step 1:** You need to open the home.html file in the browser.

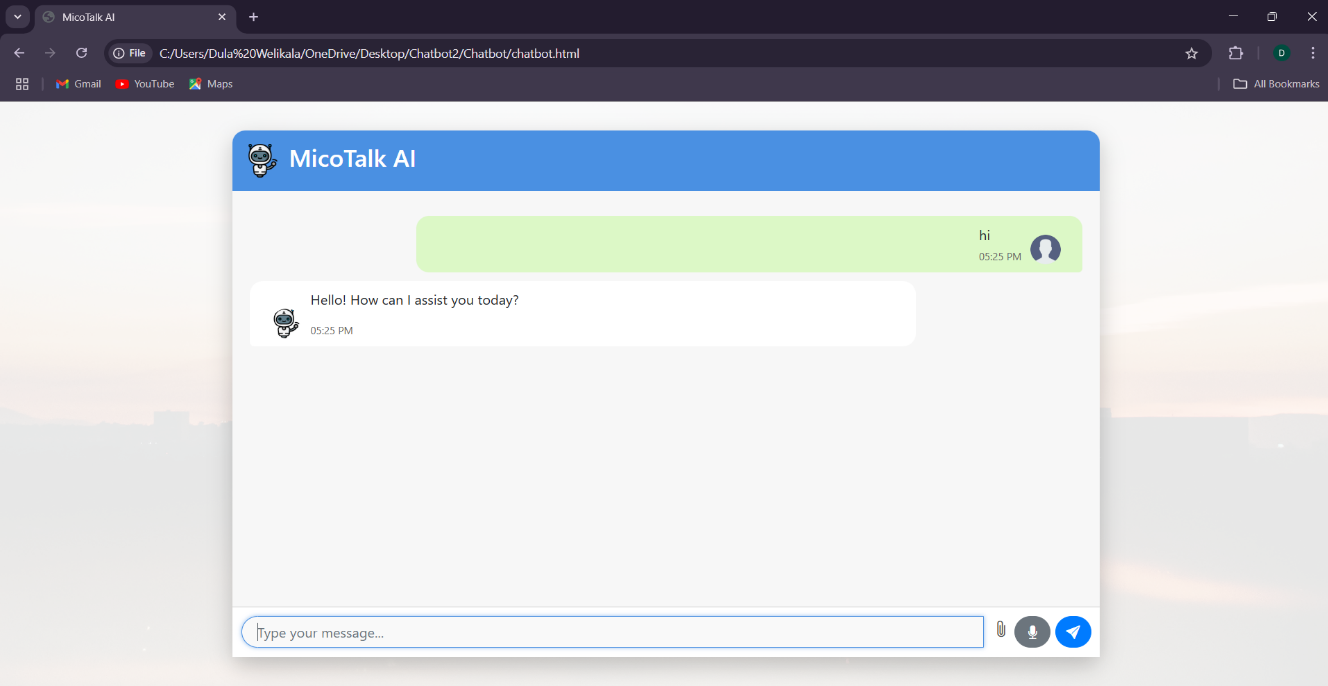
**Step 2:** Click the small bot icon in the right corner of the website. OR click the “try the Chatbot” button in the left corner of the website.

**Step 3:** Enter the question and click the send button.

Web Interface







**Group Members,**

* GAM/IT/2022/F/0078 – P.I. Dilhara
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* GAM/IT/2022/F/0096 – M.B.Y Dhanayaka
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