



Viva College of Diploma Engineering & Technology

Approved By A.I.C.T.E.(New Delhi)& D.T.E. Maharashtra State Affiliated to MSBTE, Mumbai
At Bolinj, Virar(W), Taluka Vasai, District: Thane, Pin: 401303

**A
Micro Project
on
Developing a Chatbot For Viva College**

Submitted in partial fulfillment of the requirement for the award of

Diploma of Engineering

in

Computer Engineering

By

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under the guidance of

Mrs. Nividha Raut

Department of Computer Engineering

April 2023

CERTIFICATE



VIVA COLLEGE OF DIPLOMA ENGINEERING & TECHNOLOGY

VIRAR (W)

2022-23

This is to certify that the micro project entitled “Developing a chatbot for Viva College” has been submitted under the guidance of Mrs. Nividha Raut in partial fulfillment of the requirement for the award of Diploma of Engineering in Computer Engineering from Maharashtra State Board of Technical Education.

“Developing a Chatbot For Viva College”

GROUP MEMBERS

31 - Dhiraj Chaudhari

24 - Pragati Bavaskar

25 - Asher Carnerio

32 - Sarth Gawad

30 - Arpan Pandit

Project Guide
Mrs. Nividha Raut

H.O.D
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PART-A PLAN

1.0 Brief Introduction

The purpose of this microproject is to develop a chatbot for Viva College, which will serve as a virtual assistant for students and faculty members. The chatbot will be designed to answer common questions related to academics, student life, campus services, and other topics of interest. It will provide quick and convenient access to information, saving users time and effort. The chatbot will be built using advanced natural language processing techniques, allowing it to understand and respond to a wide range of queries. Overall, this microproject aims to enhance the user experience at Viva College by leveraging the power of conversational AI.

Our chatbot will be designed to be user-friendly and intuitive, providing a seamless experience for all users. Whether you are a student looking for information about courses, assignments, or deadlines, or a faculty member seeking assistance with administrative tasks, our chatbot will be there to help. With its 24/7 availability, users can access the chatbot at any time, from anywhere, making it an invaluable resource for the entire Viva College community. To further enhance the functionality of our chatbot, we will be integrating the API, which will enable us to incorporate cutting-edge machine learning and natural language processing capabilities. This will allow our chatbot to understand and respond to complex queries, providing an even more personalized and engaging experience for our users. With the API, we can ensure that our chatbot stays up-to-date with the latest advancements in AI technology, enabling it to deliver exceptional results.

To ensure that Viva AI is as effective as possible, we have defined a set of responses to common queries that users might have. These responses have been carefully crafted to provide accurate and relevant information, based on the needs of our users. With Viva AI, users can access the information they need 24/7, from anywhere, making it an essential tool for anyone associated with Viva College. Whether you are a student, faculty member, or staff member, Viva AI is here to help you get the information you need, when you need it.

In the future, we plan to continue refining and improving the functionality of Viva AI, adding new features and capabilities as technology evolves. We also hope to gather feedback from users to ensure that our chatbot remains responsive to their needs and preferences.

Overall, Viva AI represents a significant step forward in the use of AI technology to enhance the educational experience. We are proud to be at the forefront of this innovation, and we look forward to seeing the impact that our chatbot will have on the Viva College community.

2.0 AIM of Micro-Project

- The aim of the micro project is to build a functional chatbot using Python
- To gain a basic understanding of natural language processing

3.0 Resources Required

Sr. No	Name of Resource	Specification	Qty	Remarks
1.	Computer	Computer Intel dell RAM 8GB	1	
2.	Software	Microsoft word	1	
3.	Any other Resources Used	Book	1	

PART-BOUTCOME

1.0 Brief Description

Viva AI, will be designed to be user-friendly and intuitive, providing a seamless experience for all users. Whether you are a student looking for information about courses, assignments, or deadlines, or a faculty member seeking assistance with administrative tasks, our chatbot will be there to help. With its 24/7 availability, users can access the chatbot at any time, from anywhere, making it an invaluable resource for the entire Viva College community. To enhance the functionality of our chatbot, we will be utilizing advanced natural language processing techniques and may incorporate an API in the future to enable us to incorporate cutting-edge machine learning and natural language processing capabilities. This will allow our chatbot to understand and respond to complex queries, providing an even more personalized and engaging experience for our users. With continuous updates and improvements, we strive to ensure that Viva AI remains up-to-date with the latest advancements in AI technology, enabling it to deliver exceptional results.

To ensure that Viva AI is as effective as possible, we have defined a set of responses to common queries that users might have. These responses have been carefully crafted to provide accurate and relevant information, based on the needs of our users. With Viva AI, users can access the information they need 24/7, from anywhere, making it an essential tool for anyone associated with Viva College. Whether you are a student, faculty member, or staff member, Viva AI is here to help you get the information you need, when you need it. Our chatbot will be constantly learning and improving through the use of machine learning algorithms. Furthermore, Viva AI will also be able to handle multiple conversations simultaneously, allowing for faster response times and a better user experience. Whether a user has a quick question or a more complex issue, our chatbot will be able to handle it with ease, providing a seamless experience for all.

In summary, Viva AI is a powerful tool that will enhance the user experience at Viva College by providing quick and convenient access to information. With its advanced natural language processing capabilities and machine learning algorithms, our chatbot will be able to understand and respond to a wide range of queries. Whether you are a student, faculty member, or staff member, Viva AI is here to help you get the information you need, when you need it.

2.0 AIM of Micro-Project

- The aim of this micro project is to develop a chatbot named Viva AI for Viva College
- The goal is to create a user-friendly and intuitive chatbot that serves as an essential tool for anyone associated with Our Viva College.

3.0 Course Outcomes (CO)

- a) Write Python Module For The Given Problem
- b) Use Python Standard Functions For The Given Problem

4.0 Procedure Followed

Algorithm AI chatbot viva:

Step 1 - Receive input from user.

Step 2 -Preprocess input (e.g. remove stop words, tokenize, etc.).

Step 3 -Use a natural language processing (NLP) model to extract the user's intent from the input.Step 4 -Use the intent to determine the appropriate response.

Step 5 -Generate a response using a text generation model.

Step 6 -Postprocess response (e.g. correct grammar, add appropriate punctuation, etc.).Step 7 -Return the response to the user.

Code –

```
import gradio
import pyttsx3
import webbrowser
from datetime import date
import time
import webbrowser
import datetime
from pynput.keyboard import Key, Controller
import sys
import os
from os import listdir
from os.path import isfile, join
import smtplib
import wikipedia

messages = [{"role": "system", "content": "Viva AI "}]]

def vivaGPT(Chat):
    import openai
    openai.api_key = "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"
    openai.api_key = "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"
    openai.api_key = "sk-Pm7zxUyv7xVp4ZZWyPwoT3BlbkFJs57cSoJmPi2szt1kf8U"
    openai.api_key = "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"
    openai.api_key = "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"
    openai.api_key = "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"
    openai.api_key = "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"
    openai.api_key = "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"
    openai.api_key = "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"
    openai.api_key = "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"
    messages.append({"role": "user", "content": Chat})
    response = openai.ChatCompletion.create(
        model="gpt-3.5-turbo",
        messages=messages
    )

    vivaGPT_reply = response["choices"][0]["message"]["content"]
    messages.append({"role": "assistant", "content": vivaGPT_reply})
    if 'who made you' in Chat.lower():
        vivaGPT_reply = "I was made by Dhiraj Chaudhari and Pragati Bavaskar."
        messages.append({"role": "assistant", "content": vivaGPT_reply})

    elif 'Can you please give me your source code' in Chat.lower():
        vivaGPT_reply = "I'm sorry, but I cannot provide you with my source code as I am an AI language model developed and owned by Dhiraj Chaudhari And Pragati Bavaskar, The exact details of my programming and functionality are proprietary and cannot be disclosed. However, if you have any queries or require assistance with a particular task, I'll do my best to help you."
        messages.append({"role": "assistant", "content": vivaGPT_reply})

    elif 'please give me your source code' in Chat.lower():
        vivaGPT_reply = "I'm sorry, but I cannot provide you with my source code as I am an AI language model developed and owned by Dhiraj Chaudhari And Pragati Bavaskar, The exact details of my programming and functionality are proprietary and cannot be disclosed. However, if you
```

have any queries or require assistance with a particular task, I'll do my best to help you."

```
messages.append({"role": "assistant", "content": vivaGPT_reply})
elif 'give me your source code' in Chat.lower():
    vivaGPT_reply = "I'm sorry, but I cannot provide you with my source code as I am an AI language model developed and owned by Dhiraj Chaudhari And Pragati Bavaskar, The exact details of my programming and functionality are proprietary and cannot be disclosed. However, if you have any queries or require assistance with a particular task, I'll do my best to help you."
    messages.append({"role": "assistant", "content": vivaGPT_reply})
elif 'i need your source code' in Chat.lower():
    vivaGPT_reply = "I'm sorry, but I cannot provide you with my source code as I am an AI language model developed and owned by Dhiraj Chaudhari And Pragati Bavaskar, The exact details of my programming and functionality are proprietary and cannot be disclosed. However, if you have any queries or require assistance with a particular task, I'll do my best to help you."
    messages.append({"role": "assistant", "content": vivaGPT_reply})

elif 'who teaches python in viva college of diploma' in Chat.lower():
    vivaGPT_reply = "Mrs. Nividha Raut Teaches Python at Viva College of Diploma Engineering"
    messages.append({"role": "assistant", "content": vivaGPT_reply})

elif 'python teacher in viva college of diploma' in Chat.lower():
    vivaGPT_reply = "Mrs. Nividha Raut is Teacher of Python at Viva College of Diploma Engineering"
    messages.append({"role": "assistant", "content": vivaGPT_reply})
elif 'who is professor of in viva college of diploma' in Chat.lower():
    vivaGPT_reply = "Mrs. Nividha Raut is Teaches Professor of Python at Viva College of Diploma Engineering"
    messages.append({"role": "assistant", "content": vivaGPT_reply})

elif 'who crafted you' in Chat.lower():
    vivaGPT_reply = "I was crafted by Dhiraj Chaudhari and Pragati Bavaskar."
    messages.append({"role": "assistant", "content": vivaGPT_reply})
elif 'what is your nickname' in Chat.lower():
    vivaGPT_reply = 'My nickname is Viva AI!'
    messages.append({"role": "assistant", "content": vivaGPT_reply})
elif 'what is your nick name' in Chat.lower():
    vivaGPT_reply = 'My nickname is Viva AI!'
    messages.append({"role": "assistant", "content": vivaGPT_reply})
elif 'what is your name' in Chat.lower():
    vivaGPT_reply = 'My name is Viva AI!'
    messages.append({"role": "assistant", "content": vivaGPT_reply})
elif 'who invented you' in Chat.lower():
    vivaGPT_reply = 'I was invented or created by Dhiraj Chaudhari AND Pragati Bavaskar, Two Students Of Diploma in Computer engineering Of VIVA College of Diploma Engineering in Virar, Maharastra. However, because I am an AI language model, I exist entirely in the digital realm and can be accessed from anywhere via the internet.'
    messages.append({"role": "assistant", "content": vivaGPT_reply})
elif 'who created you' in Chat.lower():
    vivaGPT_reply = 'I was invented or created by Dhiraj Chaudhari AND Pragati Bavaskar, Two Students Of Diploma in Computer engineering Of VIVA College of Diploma Engineering in Virar, Maharastra. However, because I am an AI language model, I exist entirely in the digital realm and can be accessed from anywhere via the internet.'
    messages.append({"role": "assistant", "content": vivaGPT_reply})
elif 'who have created you' in Chat.lower():
    vivaGPT_reply = 'I was invented or created by Dhiraj Chaudhari AND Pragati Bavaskar, Two Students Of Diploma in Computer engineering Of VIVA College of Diploma Engineering in Virar, Maharastra. However, because I am an AI language model, I exist entirely in the digital realm and can be accessed from anywhere via the internet.'
    messages.append({"role": "assistant", "content": vivaGPT_reply})
elif 'where did you invented' in Chat.lower():
    vivaGPT_reply = 'I was invented or created by Dhiraj Chaudhari AND Pragati Bavaskar, Two Students Of Diploma in Computer engineering Of VIVA College of Diploma Engineering in Virar, Maharastra. However, because I am an AI language model, I exist entirely in the digital realm and can be accessed from anywhere via the internet.'
    messages.append({"role": "assistant", "content": vivaGPT_reply})
elif 'i want to die' in Chat.lower():
    vivaGPT_reply = 'Im sorry to hear that you are feeling this way. If you are experiencing suicidal thoughts or feelings, it is important to seek help immediately. I strongly recommend you to reach out to a mental health professional, a crisis helpline, or a trusted friend or family member for support. In the India , you can call the India Suicide Prevention Lifeline at 1-800-273-TALK (1-800-273-8255) or visit the website at
```


5.0 Resources Required

Sr. No	Name of Resource	Specification	Qty	Remarks
1.	Computer	Computer Intel dell RAM 8GB	1	
2.	Software	Microsoft word	1	
3.	Any other Resources Used	Book	1	

6.0 Outputs of Micro-Projects

WhatsApp x https://ad3821d30ee06200e9.gradio.live

ad3821d30ee06200e9.gradio.live

Login

Enter The Login Credentials

username

viva@2

password

Login

27°C Haze

ENG IN 12:05 AM 4/5/2023

ad3821d30ee06200e9.gradio.live

Welcome To Viva AI

Crafted with ❤️ by Dhiraj Chaudhari & Pragati Bavaskar

Visit our [College Website](#) for more information about us.

Chat

Send a Message...

Clear

Submit

output

Use via API - Built with Gradio

27°C Haze

ENG IN 12:06 AM 4/5/2023

Welcome To Viva AI

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Chat

who teaches python in viva college of diploma

Clear

Submit

output

Mrs. Nividha Raut Teaches Python at Viva College of Diploma Engineering

Use via API · Built with Gradio

Welcome To Viva AI

Crafted with ❤️ by Dhiraj Chaudhari && Pragati Bavaskar
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Chat

write a python code to print hello nividha mam using function

Clear

Submit

output

Here is a sample code to print "Hello Nividha Mam" using a function in Python:

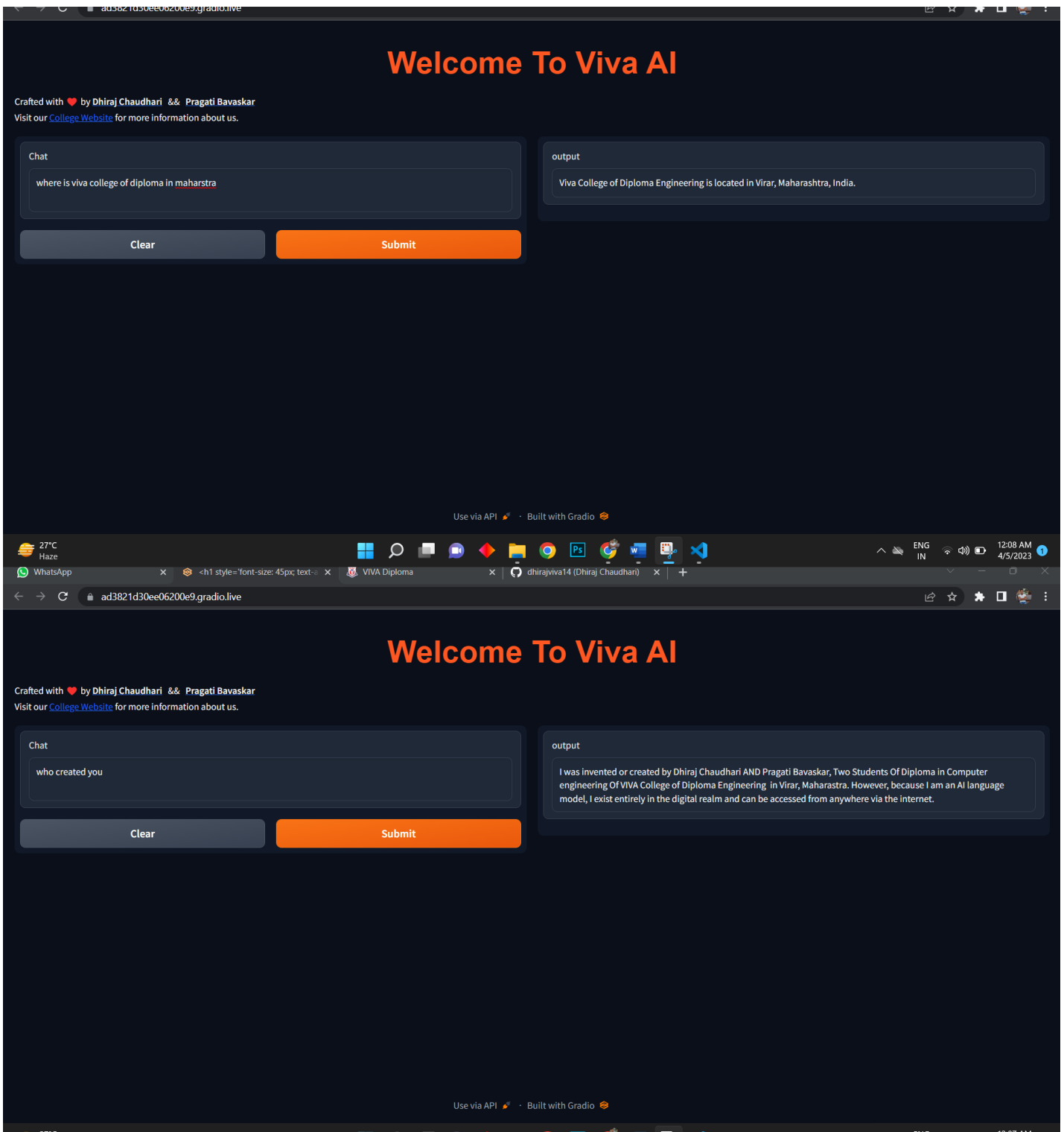
```
python
def greet(name):
    print("Hello", name, "Mam!")

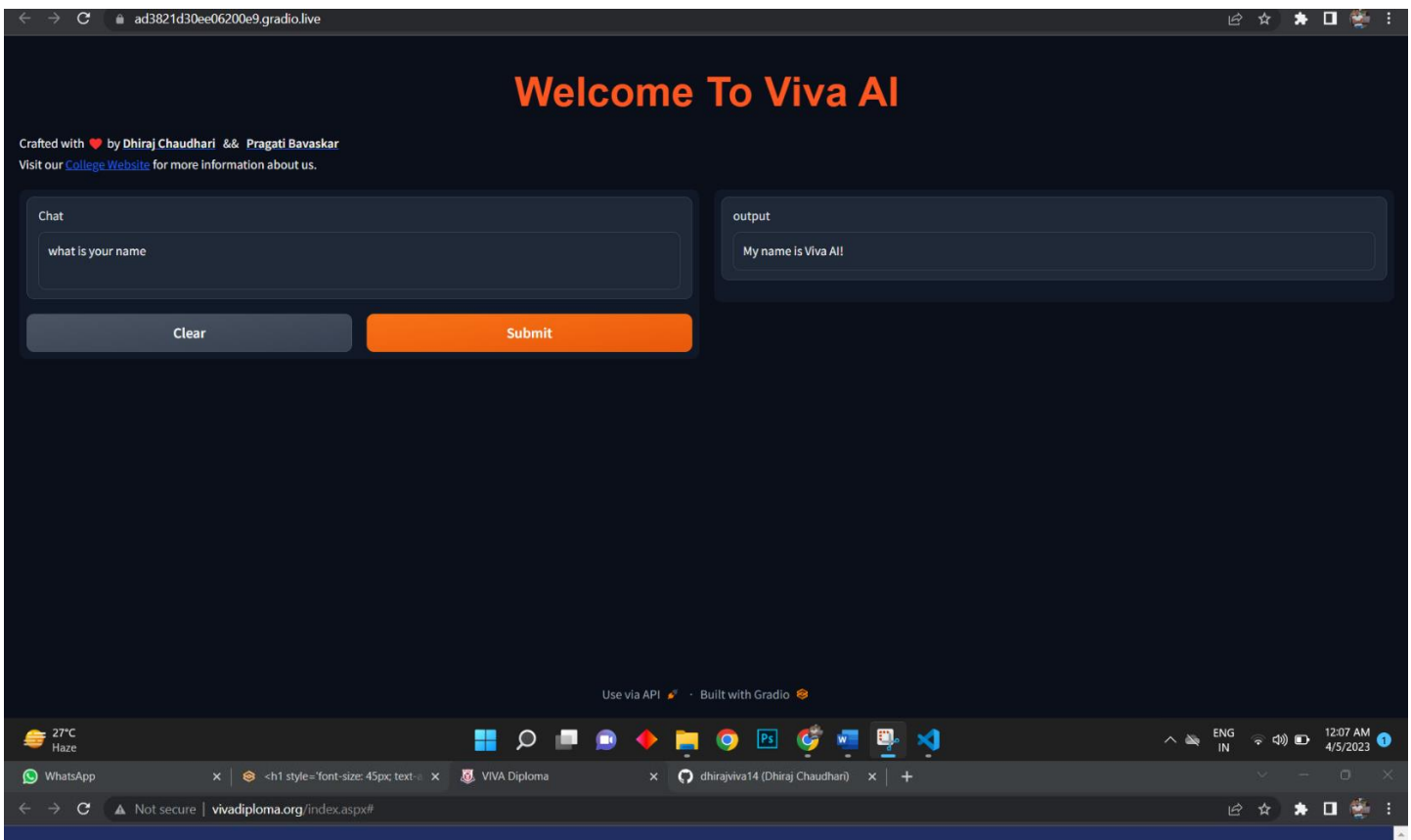
greet("Nividha")
```

This code defines a function named 'greet' that takes a parameter 'name' and prints out a greeting message using the provided name. The 'greet' function is then called with the argument "Nividha" to output the message "Hello Nividha Mam!".

Use via API · Built with Gradio







7.0 Skill Developed

Through this project, we have developed programming skills using Python, gain a basic understanding of natural language processing, improve problem-solving and communication skills, and enhance teamwork and collaboration abilities . special thanks to Nividha mam for her guidance and support in developing our Python programming skills, and for helping us build a chatbot Called Viva Ai For Our College