**Date:10.10.25**

**TASK:9**

To Build an Intelligent **Chatbot system** with Python and Dialog-flow using Interactive Text Mining Framework for Exploration of Semantic Flows in Large Corpus of Text.

To Build an Intelligent Chatbot system with Python and Dialog-flow using Interactive Text Mining Framework for Exploration of Semantic Flows in Large Corpus of Text. **CO4 S3**

* To integrate with Google Cloud Speech-to-Text and third-party services such as Google Assistant, Amazon Alexa, and Facebook Messenger.
* Configure Dialogflow to manage your data across GCP services and let you optionally integrate Google Assistant.

**Tools- Python, Dialog-flow Framework**

TO BUILD AN INTELLIGENT **CHATBOT SYSTEM** WITH PYTHON AND DIALOG-FLOW USING INTERACTIVE TEXT MINING FRAMEWORK FOR EXPLORATION OF SEMANTIC FLOWS IN LARGE CORPUS OF TEXT

**AIM:**

To build an intelligent chatbox system with Python and dialog-flow using interactive text mining framework for exploration of semantic flow in large corpus of Text

**ALGORITHM:**

Steps to create an intelligent chatbot using OpenAI APIs:

1. Sign up for OpenAI API access at https://beta.openai.com/signup/. Once you sign up, you will receive your API key.

2. Choose the type of chatbot you want to create. For example, you can create an FAQ chatbot, a customer support chatbot, or a conversational chatbot.

3. Use OpenAI's GPT-3 language model to generate responses to user input. You can use the API to train the language model on your chatbot's intended use case/s.

4. Use Natural Language Processing (NLP) techniques to understand user input and provide relevant responses. You can use OpenAI's API to extract entities (such as dates and names) from user input.

5. Use Machine Learning to continually improve the chatbot's ability to understand and respond to user input.

6. Integrate the chatbot with your preferred messaging platform or channel (e.g., web chat, social media, etc.) using API connectors.

7. Test your chatbot frequently, and use user feedback to improve its performance and provide the best possible experience for your users.

1. **SIMPLE CHATGPT USING OPENAI**

**CODE:**

Pip install openai

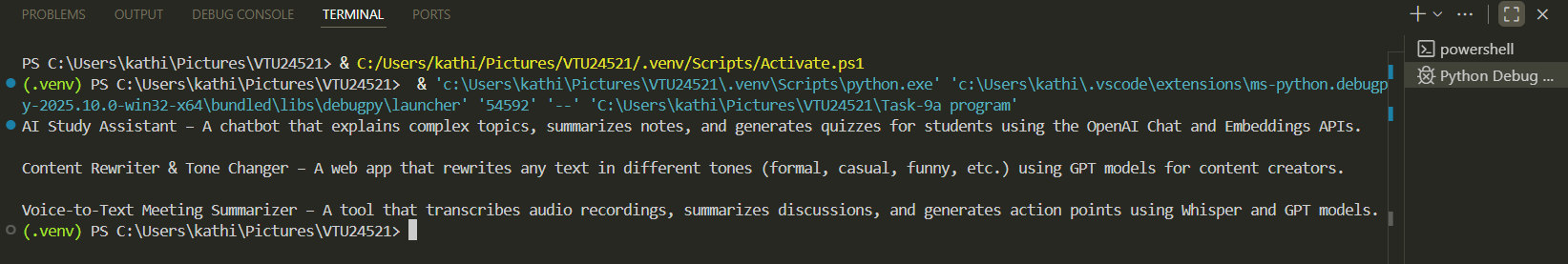
import openai

openai.api\_key = "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"

completion = openai.ChatCompletion.create(model="gpt-3.5-turbo", messages=[{"role": "user", "content": "Give me 3 ideas that i could build using openai apis"}])

print(completion.choices[0].message.content)

**OUTPUT:**



1. **CHATGPT ASSISTANT USING OPENAI**

**CODE:**

import openai

openai.api\_key = "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"

messages = []

system\_msg = input("What type of chatbot would you like to create?\n")

messages.append({"role": "system", "content": system\_msg})

print("Your new assistant is ready! Type your query")

while input != "quit()":

message = input()

messages.append({"role": "user", "content": message})

response = openai.ChatCompletion.create(model="gpt-3.5-turbo", messages=messages)

reply = response["choices"][0]["message"]["content"]

messages.append({"role": "assistant", "content": reply})

print("\n" + reply + "\n")

**OUTPUT:**



1. **CHATBOT CHAT ASSISTANT WEBSITE**

**CODE:**

import openai

import gradio

openai.api\_key = "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"

messages = [{"role": "system", "content": "You are a financial experts that specializes in real estate investment and negotiation"}]

def CustomChatGPT(user\_input):

messages.append({"role": "user", "content": user\_input})

response = openai.ChatCompletion.create(

model = "gpt-3.5-turbo",

messages = messages

)

ChatGPT\_reply = response["choices"][0]["message"]["content"]

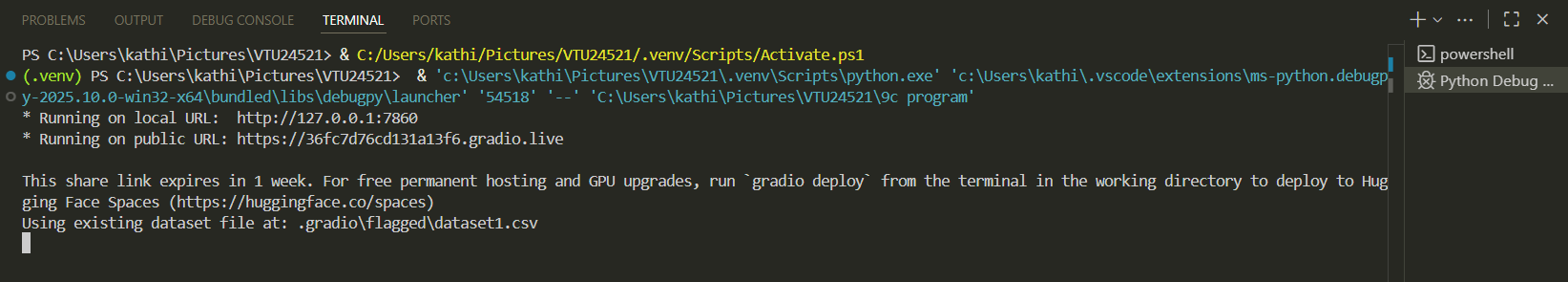
messages.append({"role": "assistant", "content": ChatGPT\_reply})

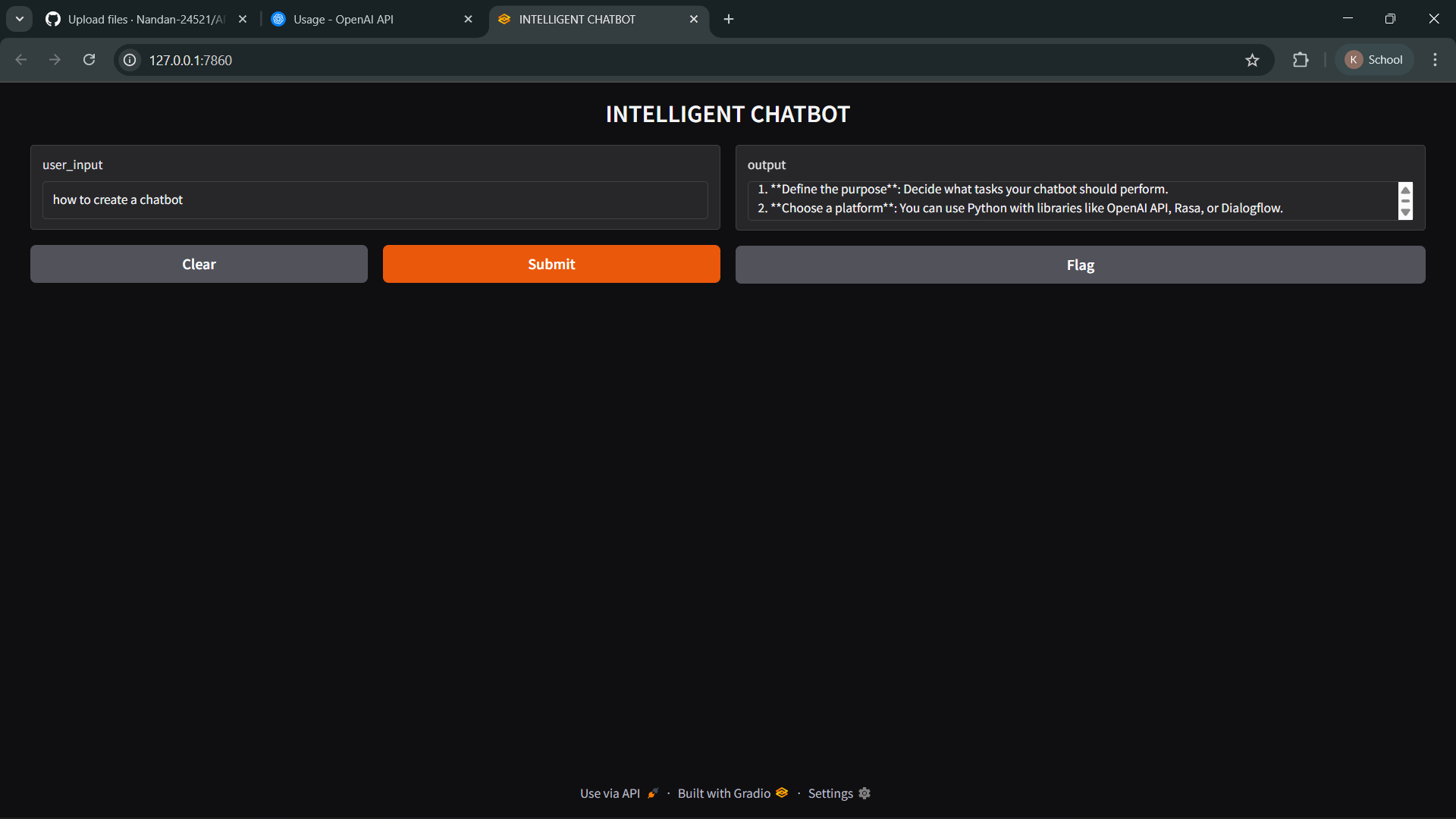
return ChatGPT\_reply

demo = gradio.Interface(fn=CustomChatGPT, inputs = "text", outputs = "text", title = "INTELLIGENT CHATBOT")

demo.launch(share=True)

**OUTPUT:**

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**RESULT:**

Thus, to build an intelligent chatbox system with Python and dialogue flow was successfully completed and output was verified.