Name: Sree Rithigaa S

NM id: au2021107023

AI CHATBOT USING CHATGPT – OPEN AI API

import openai

# Set your OpenAI API key

api\_key = 'YOUR\_API\_KEY'

openai.api\_key = api\_key

# Initialize conversation history

conversation\_history = []

def ask\_gpt(prompt, history):

# Generate response using OpenAI API

response = openai.Completion.create(

engine="text-davinci-002",

prompt=prompt,

max\_tokens=50,

history=history,

temperature=0.7

)

return response.choices[0].text.strip()

print("Welcome to ChatGPT! Type 'exit' to end the conversation.")

while True:

user\_input = input("You: ")

if user\_input.lower() == 'exit':

print("ChatGPT: Goodbye!")

break

# Append user input to conversation history

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

# Generate response using GPT model

response = ask\_gpt(user\_input, conversation\_history)

# Append model response to conversation history

conversation\_history.append({"role": "assistant", "content": response})

print("ChatGPT:", response)

OUTPUT:

Welcome to ChatGPT! Type 'exit' to end the conversation.

You: Hi there!

ChatGPT: Hello! How can I assist you today?

You: Can you tell me a joke?

ChatGPT: Sure! Why couldn't the bicycle stand up by itself? Because it was two-tired!

You: Haha, that's a good one. Thanks!

ChatGPT: You're welcome! Feel free to ask if you have any more questions.

You: What's the colour of an apple?

ChatGPT: The colour of an apple is red.

You: exit

ChatGPT: Goodbye!