#### AI CHATBOT

# **Google API Setup**

## Step 1:

Setting up google cloud console by creating a Google cloud project in this link <a href="https://console.cloud.google.com/welcome/new?pli=1">https://console.cloud.google.com/welcome/new?pli=1</a>. Created credentials in the console for oauth client id. After selecting the necessary options, download the credentials. Json file and noted down the client secret id.

#### Step 2:

Enabled the services required, for our project we need, Google Docs API and Google Calendar API.

# **Chatgpt API setup**

Visited this Openai link <a href="https://platform.openai.com/docs/overview">https://platform.openai.com/docs/overview</a> and brought a \$5 credit for making API requests. Copied the api key from my account to use it in code later.

# Google docs creation with content

Created google docs in my gmail account with valid content of my availability.

Link: <a href="https://docs.google.com/document/d/1gmXENZiRJ1te56lqNRAARbp">https://docs.google.com/document/d/1gmXENZiRJ1te56lqNRAARbp</a> 7S8Uto5Kd1p-PUgzABU/edit?usp=sharing

## **Code Setup**

## Step 1:

I had setup my Visual Studio for jupyter notebooks. Created a new kernel for this project to install all the necessary libraries.

## Step 2:

Installed langchain, openai, langchain openai for the project setup.

#### **Code Flow**

## Step 1:

Implemented the Google docs retreival in code with help of credentials.json file downloaded from Google API console. . Got some information on how to implement with this google documentation link : https://developers.google.com/docs

#### Step 2:

Implemented the Google Calendar event creation in code with help of credentials.json file downloaded from Google API console. Got some information on how to implement with this google documentation link: <a href="https://developers.google.com/calendar/api/quickstart/python">https://developers.google.com/calendar/api/quickstart/python</a>

### Step 3:

Used the Openai API key in code for accessing Ilm models. Gave the docs to chatgpt code. Made the code interactive with users for querying. When the user enters details to book with time details, the Calendar event gets created. This can be verified on the Google Calendar.

#### **Code screenshots**

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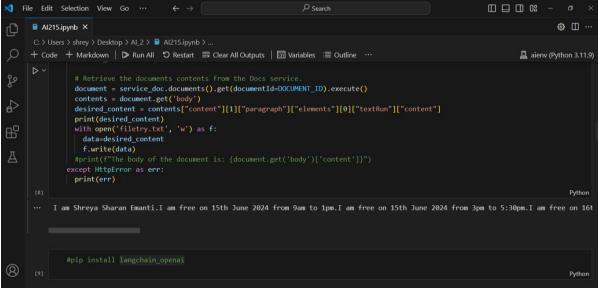
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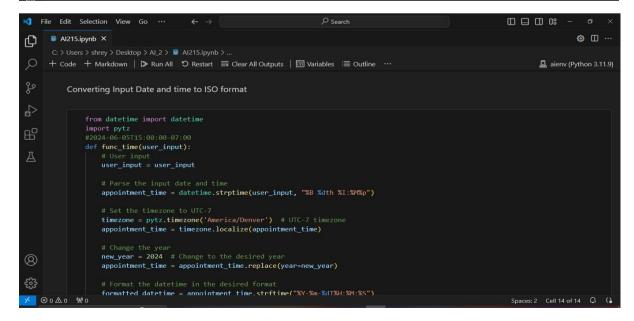
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          Google Docs Retrieval
               from google.oauth2.credentials import Credentials
               from google_auth_oauthlib.flow import InstalledAppFlow
               from googleapiclient.errors import HttpError
              SCOPES = ["https://www.googleapis.com/auth/documents.readonly"]
              # The ID of a sample document.
DOCUMENT_ID = "1gmXENZiRJ1te56lqNRAARbp_7S8Uto5Kd1p-PUgzABU"
(8)
               creds = Credentials.from_authorized_user_file("token_doc.json", SCOPES)
               if not creds or not creds.valid:
```

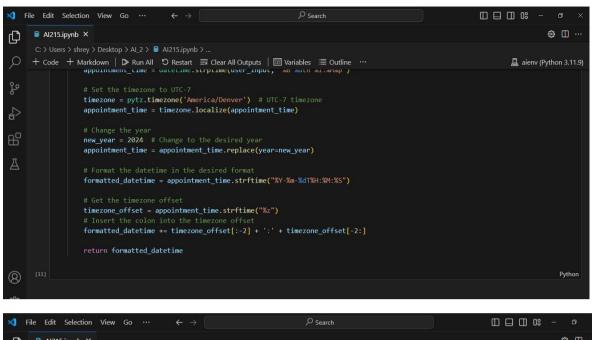
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     aienv (Python 3.11.9)
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             if creds and creds.expired and creds.refresh token:
               Д
               creds = flow.run local server(port=0)
              # Save the credentials for the next run with open("token_doc.json", "w") as token:
              service_doc = build("docs", "v1", credentials=creds)
              contents = document.get('body')
              desired_content = contents["content"][1]["paragraph"]["elements"][0]["textRun"]["content"]
              with open('filetry.txt', 'w') as f:
data=desired_content
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                f.write(data)
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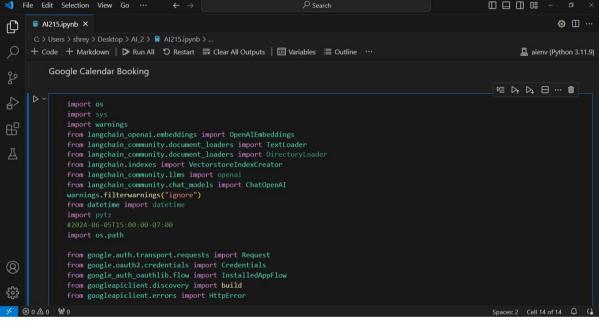
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D = Markdown | D Run All D Restart and name of the next 10 events on the user's calendar.
                                                                                                                                                                       aienv (Python 3.11.9)
                                                                                                                                                              print("Creating the appointment")
                              tt ={
   'summary': 'Chatbot Booked Meeting',
   'start': {
   'dateTime': start_date_time,
   'timeZone': 'America/Los_Angeles',
Д
                                ,
end': {
 'dateTime': end_date_time,
 'timeZone': 'America/Los_Angeles',
                        print('Event created: %s' % (event.get('htmlLink')))
                      except HttpError as error:
| print(f"An error occurred: {error}")
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                   os.environ["OPENAI_API_KEY"] = "Enter your openai API key here"
                        query = input("Enter your prompt: ")
print("User Prompt: ")
₹
                        print(query)
                         loader = TextLoader('filetry.txt')
                         index = VectorstoreIndexCreator(embedding=OpenAIEmbeddings()).from_loaders([loader])
                         chat_displayed=index.query(query, 1lm = ChatOpenAI())
                           y:
if "Thank you" in chat_displayed:
| each_word=chat_displayed.split()
                              #print(req) | st=req[0]+" "+req[1]+" "+req[2]
                              stt=st.replace(",","th")
(2)
                              new st=stt.split()
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                              start date time=0
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                              #print(new_st[1])
start_date_time=0
                              if "th" not in str(new_st[1]):
    starttime=new_st[0]+" "+new_st[1]+"th "+new_st[2]
    start_date_time=func_time(starttime)
                             et=req[4]+" "+req[5]+" "+req[6]
et2=et.replace(",","th")
ett=et2.replace(".","")
Д
                              new_et=ett.split()
end_date_time=0
                              if "th" not in str(new_et[1]):
| endtime=new_et[0]+" "+new_et[1]+"th "+new_et[2]
                                 #print(endtime)
end_date_time=func_time(endtime)
                               #print(end_date_time)
if __name__ == "__main__":
    main(start_date_time,end_date_time)
                         print("Please restart the conversation.")
print(chat_displayed)
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```

