

Swapnil B.

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Gemini Explorer

What is Gemini?

- Google Gemini is a multimodal large language model developed by *Google Deepmind*
- Google Gemini is a machine that
 - Generates creative content
 - Analyze large data sets
 - Identify Patterns



Mission Steps

- Install and set-up Google Cloud
- Set up Google Gemini
- Incorporate Streamlit into the code to make it more user-friendly

Install and set-up Google Cloud

- Go to "[Google Cloud Platform](#)"
- Sign in with your Google Account
- Set up billing with any credit card(it wont charge you)
- Create a new project in Google Cloud Console
 - Name it and remember the ID
- Install Google Cloud SDK
- Initialize your GCloud account by the command 'gcloud init'
 - Then verify using 'gcloud config list'



Set up Google Gemini

- Install Python 3.11+
- Install Streamlit
 - `pip install streamlit`



Integrate Streamlit

- Follow Mikhail's video instructions for the code
- Don't forget to run the app by: `streamlit run gemini_explorer.py`
- IMPORTANT FUNCTION : `llm_function()`

```
def llm_function(chat: ChatSession, query):  
    response = chat.send_message(query)  
    output = response.candidates[0].content.parts[0].text  
  
    with s_lit.chat_message("model"):  
        s_lit.markdown(output)  
  
    s_lit.session_state.messages.append(  
        {  
            "role": "user",  
            "content": query  
        }  
    )  
    s_lit.session_state.messages.append(  
        {  
            "role": "model",  
            "content": output  
        }  
    )
```



Streamlit

Integrate Streamlit pt.2

- Create an Initial message from the system to the user, using their user's name

```
if len(s_lit.session_state.messages) == 0:
    user_name_placeholder = s_lit.empty()
    user_name = user_name_placeholder.text_input("Please enter your name:")

    if s_lit.button("Submit"):
        initial_prompt = "Introduce yourself to the user, whose name is" + user_name + ", as Dr. Botu, an assistant powered by BotuLabs."
        print("The actual username was used.")

        llm_function(chat, initial_prompt)
```

- Personalized the bot's response and tone based on the things the user likes to do

THANK YOU!



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