

LLM Agents Assignments

ASSIGNMENT 1

Modify the **Weather Agent** you created so it can answer the prompt:

“Should I carry an umbrella tomorrow”

1. You must use the LLM as the planning, reasoning and action (ReAct) agent for the above.
2. If the location is not mentioned in the prompt, the chatbot should prompt the user to specify the location
3. The response from the LLM should mention the location and the reasoning for the advice it is giving. For example, the response should say:
“You do not need to carry umbrella tomorrow as the weather in New York is sunny”
4. Demonstrate using streamlit UI
5. Push your application to HuggingFace (HF)

Submission:

huggingFace URL

Tips:

You can use the `chatbot_with_context.py` code from `promptengineering` folder to make your chatbot context/history aware so that multiple interactions can be demonstrated. For example

Prompt 1) should I carry umbrella tomorrow

Response: Where will you be tomorrow?

Prompt 2) In New York

Response: You don't need to carry umbrella tomorrow if in New York, as it will be sunny there.

ASSIGNMENT 2

The **`streamlit_app_weatheragent.py`** currently is using hardcoded function parameter (location). Remove the hardcoding, make it generic. Also enhance it so that it can pass multiple parameters to the function call if provided in the llm response

Submit:

Updated `streamlit_app_weatheragent.py`

ASSIGNMENT 3

Make a copy of **streamlit_app_weatheragent.py**

Rename it to **multipurpose_agent.py**

You will create an agent that can tell the weather related information of any location as well as latest stock price about any stock

Push the app to HF

Submit:

HF URL for your app.

The app should be able to respond to following prompts:

- 1) What is the current weather in Paris?
- 2) What is stock price of TCS?

Tips:

- 1) You will need to create and register 2 functions (get_weather and get_stock_details)
- 2) You can use alphavantage.com as the API service that returns stock details for any company. It is advised you create your own key, but you can also use the key mentioned below. Following is a working URL you can use as a reference. (try in postman)

https://www.alphavantage.co/query?function=TIME_SERIES_DAILY&symbol=TCS&apikey=ADZNUQ7X21G5K7NB