Weather Assistant App Using OpenWeatherMap API

Energy | 💎 Medium

1. Purpose

The purpose of the Weather Assistant App is to provide users with real-time weather information and forecasts for specified locations using natural language queries. The app leverages a language model's Function calling capability to interpret user queries and call the **OpenWeatherMap** API to fetch relevant weather data.

2. Scope

The application will:

- Accept natural language input from users regarding weather queries.
- Use LLM Function call to parse and fetch weather data from the **OpenWeatherMap** API.
- Display weather information in an easily understandable format.

3. API Requirements

- **OpenWeatherMap API** for fetching weather data.
- **Any LLM** for processing natural language queries.

4. Functional Requirements

- The app should use the LLM's function calling capability to interpret the intent and details from the user's natural language input.
- Based on the user's input, LLM should make the right API call to fetch relevant weather data from the **OpenWeatherMap** API.
- Present the weather data to the user in a clear, concise, and visually appealing manner.

5. Non-functional Requirements

- The app should have a simple and intuitive UI/UX.
- You can choose any tech stack to build the UI: Gradio, Streamlit or JavaScript.