**AI Conversation**  
  
  
  
**Conversation1.txt**: **Conversation about Choosing Weather Data Source**

**Me:** What are the pros and cons of using wttr.in vs OpenWeatherMap for my Python weather app?

**AI:** wttr.in is free, simple, and doesn't require an API key, but limited in data detail. OpenWeatherMap provides richer data but needs authentication and careful request management.

**Me:** Which would you recommend for a student assignment that requires minimal setup?

**AI:** wttr.in is a better choice due to simplicity and no API key needed.

Note: Decided to use wttr.in for reduced complexity and faster development.

**Conversation2.txt**: **Conversation about Parsing Natural Language**

**Me:** I want to allow questions like 'Will it rain in Paris?' — how can I detect location and weather type?

**AI:** Use simple keyword checks for 'rain', 'temperature', etc., and look for 'in <location>' to extract the city.

**Me:** Can you show me an example function to parse that?

**AI:** Sure! Here's a Python function that returns attribute and location from the string.

**Me:** Thanks! I’ll adapt that into my parser.

Note: This prompt gave me the base for parse\_weather\_question().

**Conversation3.txt**: **Conversation about Creating Modular Visualisations**

**Me:** I want to create line and bar charts using matplotlib for weather trends. Can you modularise this?

**AI:** Yes. Use one function for temperature with line plot, another for precipitation with bar plot. Pass weather data as an argument.

**Me:** Add labels and make it visually appealing.

AI: Done. Also included grid lines and titles with emojis.

Note: I used these visual improvements in the create\_temperature\_visualisation() and create\_precipitation\_visualisation().

**Conversation4.tx**t: **Conversation about Adding Interactive UI with ipywidgets**

**Me:** How do I create buttons and input fields for my notebook weather app?

**AI:** Use ipywidgets.Text, Button, and VBox/HBox to arrange layout. Use callbacks to handle clicks.

**Me:** Can you help me wire those buttons to fetch weather, show charts, and respond to questions?

**AI:** Here’s an example tying widgets to functions using output areas for responses.

Me: This is perfect. I’ll build my interface on this structure.

Note: This was key in building launch\_weatherwise\_interface().

**Conversation5.tx**t: **Conversation Handling Incorrect AI Suggestion**

**Me:** The AI code shows all hourly precipitation values instead of daily totals. How do I fix it?

**AI:** Apologies! You should take one representative hourly value or average the day.

**Me:** I’ll use the first hourly value like [‘hourly’][0][‘precipMM’] for simplicity.

**AI:** That’s valid. You can also show max/min if needed.

Note: This showed me how to fix overly verbose visualisation and keep it user-friendly.