

Project Name: Funny Weather Agent

Created with: n8n (Self-hosted / Cloud), Google Gemini, Open-Meteo API, Gmail integration

Purpose: Automate a chat-based weather report system that replies in a humorous tone and emails the result.

Logic Flow Breakdown:

- **Trigger (Manual or HTTP node):**
 - Start the flow manually or through a webhook.
 - Input can be a simple location string from the user.
- **Weather API Call:**
 - Uses Open-Meteo API to fetch current weather data (no API key required).
 - Example API endpoint used:

```
https://api.open-meteo.com/v1/forecast?latitude={lat}&longitude={lon}&current_weather=true
```

- **Gemini LLM Node:**
 - Sends a prompt like:
"You are a funny weather assistant. Take this weather data and return a humorous, casual-style weather report."
 - Input includes weather data and the original location.
- **Gmail Node (Send Email):**
 - Sends the LLM-generated output to a specified email address (my own).
 - Subject: "Your Funny Weather Update 😊"
- **Optional Memory Node:**
 - Used for preserving conversation context if agent is extended to take follow-ups later.

Tested Use Case:

Input: What's the weather today?

Output (Email):

"Hey there, sunshine seeker!

Good news! Today's forecast is drier than a stand-up comedian's wit on an off-night – zero rain expected! So you can safely leave your ark in the garage.

Temperatures are playing it cool, hanging out between 73.5°F and 77.3°F. It's basically telling you, "Go ahead, wear that questionable Hawaiian shirt, we won't judge!"

And for the next two days, the forecast is more of the same glorious dryness. Looks like the clouds are on vacation, probably sipping piña coladas somewhere.

So go forth and enjoy the weather, just try not to spontaneously combust from all the dryness!"

-  **Dependencies / Config Needed:**

- **Gmail credentials:** Connected via n8n's credentials panel.
- **Gemini API key:** (or other LLM key if modified).
- **Weather API:** Open-Meteo (no key needed).
- **n8n instance:** Either self-hosted or cloud.

-  **Ideas for Future Improvements:**

- Add Telegram/WhatsApp bot integration
- Offer multiple tone options (funny, sarcastic, poetic, etc.)
- Allow user to input preferred time or forecast range
- Store user query logs for personalization
- Deploy as public API endpoint