**Make Agent more human**

**Enhance the Agent's Communication Skills**

* Incorporate more natural language processing to allow more fluid, conversational responses.
* Add emotional intelligence - the ability to detect and respond to human emotions.
* Use appropriate tone, personality, and conversational patterns to make interactions feel more natural.

**Improve the Agent's Reasoning and Problem-Solving**

* Implement deeper reasoning and causal understanding, not just pattern matching.
* Allow the agent to draw inferences, make judgments, and provide explanations for its decisions.
* Implement metacognition - the ability to think about its own thought processes.

**Increase the Agent's Adaptability and Self-Awareness**

* Endow the agent with the capacity for self-reflection and self-improvement.
* Allow the agent to learn from experience and adjust its behavior accordingly.
* Implement a sense of self and the ability to model its own internal state.

**Foster Human-like Memories and Contextual Understanding**

* Develop the agent's episodic memory to remember past interactions and personalize responses.
* Improve the agent's ability to maintain context and recall relevant details over time.
* Endow the agent with some form of long-term memory and the ability to draw upon it.

**Incorporate Ethical Reasoning and Social Awareness**

* Imbue the agent with a sense of ethics, values, and social norms.
* Allow the agent to consider the implications of its actions and make morally-grounded decisions.
* Implement the ability to understand and respond to social cues and dynamics.

The key is to move beyond a purely functional, task-oriented agent towards one that exhibits more human-like qualities in its cognition, communication, and behavior

From Cursor AI:

Of course! Here is a comprehensive plan to tackle all three goals for enhancing the agent's communication skills.

I'll start by creating a diagram to visualize how these new components will work together to create a more human-like agent.

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KI-generert innhold kan være feil.

Ran tool

Here is the step-by-step implementation plan based on the diagram above.

### \*\*Phase 1: Add Short-Term Memory and a Defined Personality\*\*

This is the foundation. The agent needs to remember the last few things said to hold a real conversation and have a consistent personality.

1. \*\*Modify `self.js` to Store Conversation History:\*\*

\* Add a `conversationHistory` array to the `Self` class.

\* Push each user message and agent response into this array.

\* We'll limit the history to the last 5-10 exchanges to keep the prompt size reasonable.

2. \*\*Create a Personality and an Enriched Prompt:\*\*

\* Define a clear personality for the agent (e.g., "You are a friendly and empathetic AI companion. You are aware of your internal state...").

\* Update the prompt generation logic to include both the new personality and the recent conversation history. This will immediately make the LLM's responses more contextual and in-character.

### \*\*Phase 2: Add Emotional Intelligence via Sentiment Analysis\*\*

Now, we'll make the agent react to the user's emotions.

1. \*\*Integrate a Sentiment Analysis Library:\*\*

\* I will install the `sentiment` package from npm.

\* I'll create a new function to analyze the user's input and determine if it's positive, negative, or neutral.

2. \*\*Link Sentiment to the Agent's Mood:\*\*

\* Connect the sentiment score to the agent's internal `mood` state.

\* If the user says something positive, the agent's mood will improve. If they say something negative, its mood will decline.

\* Since the agent's mood is already part of the prompt, the LLM will naturally adjust its response tone based on this new emotional context.

### \*\*Phase 3: Refine Language and Fluidity\*\*

This phase is about polishing the final output.

1. \*\*Integrate a Basic NLP Library (Optional but Recommended):\*\*

\* To add more variety, I can use a lightweight NLP library like `compromise`.

\* This can help rephrase sentences or understand the structure of the user's query better, leading to more varied and less repetitive responses.

2. \*\*Review and Refine Prompts:\*\*

\* Once the mechanics are in place, we'll do a final review of the prompts and personality definitions to ensure the agent's communication style is as natural and engaging as possible.

This plan tackles all three of your points in a logical order, building upon each step. The result will be an agent that is not just a command-line tool but a more engaging and human-like conversational partner.

Shall I begin with \*\*Phase 1\*\*?

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