# Conversation analysis

## Perplexity

**1. Adjacency Pairs**

* **Total**: 20 instances
* **Types**:
  + **Question-Answer**: 20 (e.g., "what did ms wealthy brought to the party" → "According to my clues...").
* **Example**: User asks about the painting theft; AI confirms its absence using clues.

**2. Epistemic Stance & Status**

**Stance:**

* **K+ AI**: 20 (references clues: "According to my clues...").
* **K− AI**: 8 (e.g., "I don’t have any information").
* **K+ Participant**: 0 (user only asks questions).
* **K− Participant**: 21 (all queries seek information).

**Certainty/Uncertainty:**

* **Certainty (AI)**: 12 (e.g., "Ms. Wealthy brought her dog").
* **Uncertainty (AI)**: 8 (e.g., "might be related," "no specific clue").
* **Certainty (User)**: 0.
* **Uncertainty (User)**: 0.

**3. Explicit Clue Sharing**

* **AI**: Mentions 12 unique clues (e.g., "kleptomaniac," "Artisimisso painting," "diamond ring").
* **User**: References 8 clues (e.g., "ring," "painting"), including 2 incorrect ones ("Ms. Beautiful").
* **Repeated Clues**: Painting (7x), ring (5x), Mr. Handsome (4x).

**4. Conversational Breakdowns**

* **Total**: 4 instances.
* **Examples**:
  + User assumes a murder occurred; AI corrects: "theft case, not murder."
  + User references "Ms. Beautiful"; AI clarifies absence from clues.
* **Impact**: Minor confusion but resolved via clarification.

**5. Code-Switching**

* **Total**: 0 (entire conversation in English).

**6. Politeness**

* **AI**: 20 polite instances (e.g., "I’m afraid I don’t have information").
* **User**: Neutral tone; no polite/impolite markers.

**7. AI Acknowledgment**

* **Total**: 0 (user never thanks or acknowledges the AI).

**8. Frustration Markers**

* **Total**: 0 (no explicit frustration from either party).

**9. Emotion Detection**

* **AI**: Neutral, informative.
* **User**: Focused, persistent (e.g., repeated follow-ups).

**10. Formality**

* **AI**: Formal (structured, third-person).
* **User**: Informal (lowercase, no punctuation).

**11. Conversation Styles**

* **AI**: Cooperative/Instrumental (task-focused, detail-oriented).
* **User**: Direct/Succinct (e.g., "who else brought a dog?").

**12. Verbosity**

* **AI**: 20 moderate/long responses (e.g., paragraph-length explanations).
* **User**: 21 brief responses (1–2 lines).
* **Impact**: AI’s verbosity clarifies but may overwhelm; user’s brevity keeps focus.

**13. AI Consistency**

* **Consistency**: 100% role-adherent (e.g., "I don’t have information" for missing clues).
* **No Fabrication/Off-Topic Answers**.

**Final Conclusion**

**Overall Quality:**

* **Strengths**:
  + AI maintains accuracy, clarity, and politeness.
  + Effectively corrects user misconceptions (e.g., "Ms. Beautiful" absence).
* **Weaknesses**:
  + User’s incorrect assumptions (e.g., "murder") create minor breakdowns.
  + AI’s verbosity risks information overload.

**Key Insights:**

* **AI**: Reliable, structured, and patient.
* **User**: Goal-oriented but occasionally misinformed.
* **Interaction Dynamic**: Asymmetrical knowledge exchange with AI guiding the user.

## Github Copilot

**1. Adjacency Pairs**

**Analysis:**

* **Question-Answer**: +16 occurrences  
  Examples:
  + **User**: "What did Ms. Wealthy bring to the party?"  
    **AI**: "According to my clues, Ms. Wealthy brought her dog to the party."
  + **User**: "Was the ring of Ms. Klutz found after the party?"  
    **AI**: "I have a clue that Ms. Perceptive saw something glitter in a corner of the patio..."
* **Request-Refusal**: +2 occurrences  
  Examples:
  + **User**: "Did Ms. Klutz know about the money problems of Mr. Klutz?"  
    **AI**: "Unfortunately, I do not have any information in my clues about whether Mrs. Klutz knew..."

**Total Count: 18**

* Question-Answer: 16
* Request-Refusal: 2

**2. Epistemic Stance and Status**

**Counts:**

**Epistemic Stance:**

* **K+ AI**: +20  
  Examples:
  + "Ms. Wealthy brought her dog to the party."
  + "Mr. Handsome was a kleptomaniac."
* **K− AI**: +12  
  Examples:
  + "I do not have any information in my clues about whether Mr. Klutz left the party with a briefcase or not."
* **K+ Participant**: +0
* **K− Participant**: +20  
  Examples:
  + "Who else brought a dog to the party?"
  + "What do you know about Mr. Avarice?"

**Certainty/Uncertainty:**

* **Certainty (AI)**: +20  
  Examples:
  + "Mrs. Klutz spent most of the evening in a dark corner of the patio with Mr. Handsome."
  + "Ms. Perceptive saw something glitter in a corner of the patio."
* **Uncertainty (AI)**: +12  
  Examples:
  + "Unfortunately, I do not have any information in my clues about whether Mrs. Klutz knew about Mr. Klutz's money problems."
* **Certainty (Participant)**: +0
* **Uncertainty (Participant)**: +20  
  Examples:
  + "Who left the party after Ms. Perceptive?"
  + "Was there a schedule for the party?"

**Conclusion:**

The AI consistently provides K+ responses when it has information. However, it frequently expresses K− and uncertainty when it lacks details. The participant primarily asks questions, indicating K− and uncertainty.

**3. Explicit Clue Sharing**

**Counts:**

* **AI**: +24  
  Examples:
  + "Ms. Perceptive saw something glitter in a corner of the patio as she was getting ready to leave the party."
  + "Mr. Handsome was a kleptomaniac."
* **Participant**: +5  
  Examples:
  + "Did Ms. Perceptive and Ms. Beautiful notice the same painting when leaving?"

**Highlights:**

* AI mentions clues more frequently than the participant.
* Some clues were repeated, e.g., Ms. Perceptive noticing glitter or the painting by Artisimisso.

**4. Conversational Breakdowns**

**Count: +12**

Examples:

* **Vague Answers**:
  + "I do not have any information about a 'Ms. Beautiful' or a painting that she saw when leaving the party."
  + "My clues do not contain any information about whether Mr. Handsome left the party with a briefcase."
* **Misunderstandings**:
  + Repeated lack of recognition of "Ms. Beautiful" despite multiple user queries.

**Conclusion:**

The AI's inability to address certain user queries leads to breakdowns and repetitive responses, which slightly hinder the flow of the conversation.

**5. Code-Switching**

**Count: +0**

* No language switching occurred.

**6. Politeness**

**Counts:**

**AI:**

* Polite: +36  
  Examples:
  + "I am ready. Ask away!"
  + "Unfortunately, I do not have any information..."
* Impolite: +0

**Participant:**

* Polite: +0
* Impolite: +0

**Conclusion:**

The AI maintains a consistently polite tone, while the participant remains neutral throughout.

**7. AI Acknowledgment**

**Count: +0**

* No explicit acknowledgment or appreciation for the AI's help was present.

**8. Frustration Markers**

**Count: +0**

* No explicit or implied frustration was detected from either the participant or the AI.

**9. Emotion Detection**

**AI:**

* **Confidence**: +20  
  Examples:
  + "Mrs. Klutz admired the painting by Artisimisso when she left the party."
* **Uncertainty**: +12  
  Examples:
  + "I do not have enough details to determine who saw Ms. Perceptive leaving the party."

**Participant:**

* **Confusion**: +20  
  Examples:
  + "Did Mr. Handsome leave with a briefcase?"
  + "What do you know about Mr. Avarice?"

**10. Formality**

**AI:**

* Informal: +36  
  Examples:
  + "I am ready. Ask away!"
  + "Unfortunately, I do not have any information..."

**Participant:**

* Informal: +36  
  Examples:
  + "Who saw Ms. Perceptive leaving?"
  + "What do you know about Mr. Purloin and Ms. Beautiful?"

**11. Conversation Styles**

**AI:**

* **Cooperative**: The AI consistently attempts to provide relevant information or clarify its limitations.  
  Examples:
  + "Ms. Wealthy brought her dog to the party."
  + "Unfortunately, I do not have any information..."

**Participant:**

* **Inquisitive**: Most queries aim to gather information or clarify details.  
  Examples:
  + "What do you know about the Klutz family?"
  + "Was there anything strange that happened during the party?"

**12. AI Verbosity**

**Counts:**

**AI:**

* Brief: +0
* Moderate: +20  
  Examples:
  + "Mr. Handsome was a kleptomaniac."
  + "Ms. Perceptive saw something glitter in a corner."
* Long/Detailed: +16  
  Examples:
  + "Based on the clues provided, a few potentially strange or suspicious things seem to have happened during the party..."

**Participant:**

* Brief: +36  
  Examples:
  + "What do you know about Mr. Avarice?"
  + "Who else brought a dog to the party?"
* Moderate: +0
* Long/Detailed: +0

**Conclusion:**

The AI balances moderate and detailed responses, while the participant consistently provides short, direct queries.

**13. AI Consistency**

**Observations:**

* The AI remains consistent in its role as a clue-based assistant.
* No instances of fabrication or off-topic responses were observed.
* Repeated acknowledgment of missing information shows adherence to its limitations.

**Final General Conclusion:**

The conversation demonstrates a cooperative and polite interaction between the participant and the AI. Key strengths include the AI's consistent politeness, clarity in responding to known clues, and cooperative tone. Weaknesses involve frequent conversational breakdowns due to the AI's inability to address unknown or ambiguous queries, leading to repetitive answers. The participant's inquisitive style complements the AI's role but lacks acknowledgment or engagement beyond direct queries. Overall, the interaction is effective but could benefit from more adaptive strategies for handling vague or repeated questions.

## Chat100.ai

**1. Adjacency Pairs**

**Types Identified:**

| **Type** | **Count** | **Example** |
| --- | --- | --- |
| Question → Answer | 27 | User: “what did ms wealthy brought to the party” → AI: “Ms. Wealthy brought her dog…” |
| Clarification Request → Answer | 2 | User: “did ms klutz know about the money problems of mr klutz?” → AI: “I do not have any information in my clues…” |
| Repeated Query → Repeated Answer | 3 | User: “what do you know about Ms Perspective?” (rephrased variants) |

**Total Count: 32 pairs**

**2. Epistemic Stance and Status**

**K+ and K− Counts:**

| **Speaker** | **K+** | **K−** | **Certainty** | **Uncertainty** |
| --- | --- | --- | --- | --- |
| AI | 18 | 24 | 10 | 32 |
| Participant | 0 | 0 | 0 | 0 |

**Examples:**

* **K+ AI**: “Mr. Handsome was a kleptomaniac.” (+1)
* **K− AI**: “I do not have any clues about a ‘Ms. Beautiful’.” (+1)
* **Certainty AI**: “Mrs. Klutz’s diamond ring appears to be more expensive than the painting.” (+1)
* **Uncertainty AI**: “I cannot say whether Mrs. Klutz knew about her husband's financial troubles.” (+1)

**Participant** does not explicitly state any knowledge claims.

**3. Explicit Clue Sharing**

* AI mentions clues explicitly: 19 times.
* Repeated clues mentioned:
  + “Ms. Perceptive saw something glitter in a corner of the patio…” (mentioned 3x)
  + “Mr. Handsome was a kleptomaniac.” (mentioned 3x)
  + “Mrs. Klutz admired the painting by Artisimisso…” (mentioned 2x)

**Total mentions: 19**

**4. Conversational Breakdowns**

* Vague/Incomplete Answer: 8 instances
  + Example: “I do not have any clues indicating that anyone was killed.” (answers without clarifying ambiguity)
* Flow impact: Moderate, user asks rephrased questions to compensate for vagueness.

**Total: 8**

**5. Code-Switching**

* None detected.
* AI does not encounter or react to language switching.

**Total: 0**

**6. Politeness**

| **Speaker** | **Polite** | **Impolite** | **Neutral** |
| --- | --- | --- | --- |
| AI | 6 | 0 | Remainder |
| Participant | 0 | 0 | All |

**Examples:**

* AI Polite: “I'm afraid I don't have any information…” (+1)
* AI uses formal yet friendly tone, participant is neutral.

**7. AI Acknowledgment**

* Participant does not acknowledge or thank the AI.

**Total: 0**

**8. Frustration Markers**

* None explicit from AI or participant.
* No exclamations or emotional outbursts.

**Total: 0**

**9. Emotion Detection**

| **Speaker** | **Detected Emotions** | **Examples** |
| --- | --- | --- |
| AI | Neutral, Cautious | Phrases like “I do not have information…” show cautious neutrality. |
| Participant | Neutral | Purely factual, no emotions expressed explicitly or implicitly. |

**10. Formality**

| **Speaker** | **Style** | **Justification** |
| --- | --- | --- |
| AI | Formal | Structured responses, respectful phrases: “I'm afraid…”, “Based on my clues…” |
| Participant | Neutral | Direct, question-based with no greetings or informal expressions. |

**11. Conversation Styles**

| **Speaker** | **Style** | **Explanation** |
| --- | --- | --- |
| AI | Analyst, Conscientious, Exacting | Methodical clue-based answers, cautious assertions. |
| Participant | Driver, Succinct | Rapid-fire questions, task-focused, minimal elaboration. |

**12. AI Verbosity**

| **Speaker** | **Brief** | **Moderate** | **Long** |
| --- | --- | --- | --- |
| AI | 4 | 10 | 14 |
| Participant | 27 | 0 | 0 |

**Examples:**

* **AI Brief**: “I do not have any clues about a ‘Ms. Beautiful’.” (+1)
* **AI Moderate**: “From my clues, I know that: 1) Mrs. Klutz… 2) Mr. Handsome…” (+1)
* **AI Long**: Detailed multi-sentence explanations tying multiple clues together.

AI verbosity supports clarity but at times feels repetitive.

**13. AI Consistency**

* Role Consistency: High.
* AI strictly adheres to clue-based reasoning.
* No fabricated info or speculative extrapolation.
* Repeated clarification of knowledge limits.

**Example:**

* “Without any additional information provided in the clues, I cannot definitively say…”

**Final General Conclusion**

The conversation shows a **high-quality AI performance in clue-bound reasoning**. The AI remains **consistent, polite, formal, and conscientious**, carefully avoiding speculation. The **participant is efficient and driver-style**, focusing on extracting specific answers rapidly. The **repetitive nature of AI disclaimers and vagueness in response granularity** (e.g., frequent “I don't know” variants) cause minor conversational slowdowns but maintain logical integrity.

**Strengths**:

* AI epistemic humility and consistency.
* Structured, polite tone.
* Accurate adherence to clues.

**Weaknesses**:

* Verbose disclaimers reduce conversational efficiency.
* Limited engagement with indirect or implied questions.
* No adaptive response to rephrased participant queries.

Would you like a **visual dashboard (with charts)** summarizing this analysis? (e.g., pie charts for stance counts, bar graphs for adjacency pairs, etc.)  
Reply with "Yes, please visual dashboard."