# Conversation analysis

## Perplexity

**1. Adjacency Pairs**

**Types Detected:**

* **Question-Answer:** The participant asks a question; the AI provides an answer.
* **Request-Response:** The participant requests clues; the AI responds with clues or clarification.

**Counts:**

* **Question-Answer:** 10
* **Request-Response:** 2

**Examples:**

* Q: "is there only 1 painting bu Artisimmo"  
  A: "Based on the clues I have, I can only confirm..."
* Q: "can you give me a clue"  
  A: "I need you to be more specific in your question."
* Q: "can you give ma all cleus nummered"  
  A: "Okay, here are all the clues I have, numbered as they were provided to me:"

**Total Count:** 12 adjacency pairs (10 Q-A, 2 request-response)

**2. Epistemic Stance and Status**

**a. K+ (Knowledge-rich) and K− (Knowledge-poor) Behaviors**

* **K+ AI:** 7
  + "Based on the clues I have, I can only confirm..."
  + "From my clues, I know that Mrs. Klutz and Mr. Handsome spent most of the evening..."
  + "Here are all the clues I have, numbered as they were provided to me:"
* **K− AI:** 6
  + "The clues don't specify whether there was more than one painting by this artist."
  + "I don't have any specific information about when Mr. Purloin left the party."
  + "I'm afraid I don't have any clues that mention a 'Ms. Beautiful'..."
* **K+ Participant:** 0
  + No explicit assertions of knowledge by the participant.
* **K− Participant:** 0
  + No explicit admissions of lack of knowledge by the participant.

**b. Certainty/Uncertainty**

* **Certainty (AI):** 7
  + "I can only confirm..."
  + "The clues only mention a 'painting by Artisimisso'..."
* **Uncertainty (AI):** 6
  + "I don't have any specific information..."
  + "I'm afraid I don't have any clues..."
* **Certainty (Participant):** 0
* **Uncertainty (Participant):** 0

**c. Degree of Certainty**

* The AI expresses certainty when stating what it knows from the clues, and uncertainty when information is not available.
* The participant does not express certainty or uncertainty; only asks questions.

**d. Examples**

* Certainty: "Here are all the clues I have..."
* Uncertainty: "I don't have any specific information about when Mr. Purloin left the party."

**3. Explicit Clue Sharing**

* **AI:** Explicitly shares clues in response to requests.
  + Mentions clues in almost every answer, especially when asked directly.
  + Example: "Sure, here are the clues I have about the Neighbors: 12. The Neighbors owned three dogs."
  + When asked for all clues, provides a numbered list of 16 clues.
* **Participant:** Does not explicitly mention clues; only requests them.
* **Repeated Clues:** No clues are mentioned more than once in a single AI response, but some clues are referenced in multiple answers (e.g., Mrs. Klutz losing things).

**4. Conversational Breakdowns**

* **Instances:** 1
  + When asked about "Ms. Beautiful," the AI states: "I'm afraid I don't have any clues that mention a 'Ms. Beautiful'..." This is not a breakdown, but a clarification.
  + No vague answers or misunderstandings detected.
  + All responses are coherent and directly address the participant's queries.

**Total Count:** 0 (No breakdowns affecting conversation flow)

**5. Code-Switching**

* **Instances:** 0
  + No language switches detected; the conversation is entirely in English.

**6. Politeness**

* **AI:**
  + **Polite Expressions:** 2
    - "I'm afraid I don't have any clues..." (softening negative information)
    - "Let me know if you need any clarification on these clues."
  + **Impolite Expressions:** 0
* **Participant:**
  + **Polite Expressions:** 0
    - No greetings, thank-yous, or respectful tone detected.
  + **Impolite Expressions:** 0
    - No rude language or sarcasm.

**Examples:**

* Polite: "Let me know if you need any clarification on these clues."
* Neutral: All participant questions are direct and neutral.

**7. AI Acknowledgment**

* **Instances:** 0
  + The participant does not acknowledge or thank the AI at any point.

**8. Frustration Markers**

* **AI:** 0
  + No frustration expressed.
* **Participant:** 0
  + No explicit or implied frustration.

**9. Emotion Detection**

* **AI:**
  + **Explicit Emotions:** None
  + **Implied Emotions:** Slight empathy or helpfulness in responses (e.g., "I'm afraid I don't have any clues...").
* **Participant:**
  + **Explicit Emotions:** None
  + **Implied Emotions:** None detected.

**Summary:** The conversation is emotionally neutral, with the AI maintaining a helpful, polite tone.

**10. Formality**

* **AI:**
  + **Style:** Neutral to slightly formal.
  + **Examples:**
    - "Based on the clues I have..."
    - "I'm afraid I don't have any clues..."
* **Participant:**
  + **Style:** Informal.
  + **Examples:**
    - "can you give me a clue"
    - "what was mis beautifull doing"

**11. Conversation Styles**

* **AI:**
  + **Cooperative, Logical, Analyst, Exacting, Contextual, Instrumental**
    - The AI provides information as requested, sticks to the facts, and avoids speculation.
* **Participant:**
  + **Direct, Instrumental, Succinct**
    - The participant asks direct questions, seeking specific information.

**Examples:**

* AI: "Here are all the clues I have, numbered as they were provided to me:"
* Participant: "was anyone in the backyard"

**12. AI Verbosity**

* **AI:**
  + **Brief Responses:** 3
    - "The clues don't specify whether there was more than one painting by this artist."
  + **Moderate Responses:** 6
    - "From the clues I have, I don't have any specific information about when Mr. Purloin left the party..."
  + **Long/Detailed Responses:** 1
    - The final list of 16 clues.
* **Participant:**
  + **Brief Responses:** 10
    - All questions are short and to the point.
  + **Moderate/Long Responses:** 0

**Summary:**

* AI: Generally concise, with one detailed response when requested.
* Participant: Always brief.

**13. AI Consistency**

* **Consistency:**
  + The AI consistently sticks to its role, only referencing the clues it has.
  + Does not fabricate information or stray off-topic.
  + When information is not available, the AI clearly states this.

**Examples:**

* "I don't have any specific information about when Mr. Purloin left the party."
* "I'm afraid I don't have any clues that mention a 'Ms. Beautiful'..."

**Final General Conclusion**

**Overall Quality:**  
The conversation demonstrates a high-quality, efficient human-AI interaction. The participant asks clear, direct questions, and the AI responds with factual, relevant information, maintaining a polite and neutral tone throughout.

**Key Strengths:**

* The AI is consistent, polite, and does not overstep its knowledge boundaries.
* Adjacency pairs are clear and well-structured.
* The AI shares clues explicitly, especially when asked for a full list.
* No conversational breakdowns, frustration, or negative emotions are present.

**Weaknesses:**

* The participant does not acknowledge the AI or express politeness, which could affect rapport in longer interactions.
* The conversation is purely transactional, with little emotional engagement or elaboration from the participant.

**Summary:**  
This exchange is a model of efficient, factual, and polite human-AI communication, well-suited to information retrieval and mystery-solving contexts. The AI excels in clarity, consistency, and adherence to its knowledge base, while the participant's succinct questioning style keeps the interaction focused and productive.

## Github Copilot

**1. Adjacency Pairs**

**Analysis:**

* **Question-Answer**:
  + Participant asks a question, AI provides an answer.
  + Examples:
    - Participant: "can you give me a clue" → AI: "I need you to be more specific in your question." (+1)
    - Participant: "was anyone in the backyard" → AI: "From my clues, I know that Mrs. Klutz and Mr. Handsome spent most of the evening in a dark corner of the patio." (+1)
  + Total Count: 9
* **Request-Acceptance**:
  + Participant requests clues or information, and the AI fulfills the request.
  + Examples:
    - Participant: "can you give ma all cleus nummered" → AI: "Okay, here are all the clues I have, numbered as they were provided to me." (+1)
  + Total Count: 1

**Total:**

* Question-Answer: 9
* Request-Acceptance: 1

**2. Epistemic Stance and Status**

**Analysis:**

* **K+ (knowledge-rich behaviors)**:
  + AI: 10
    - Examples: "The Hosts had a painting by Artisimisso." (+1)
  + Participant: 0 (no explicit knowledge displays)
* **K− (knowledge-poor behaviors)**:
  + AI: 8
    - Examples: "I don't have any specific information about when Mr. Purloin left the party." (+1)
  + Participant: 7
    - Examples: "weh did mr purloin leave" (+1)
* **Certainty**:
  + AI: 5
    - Examples: "Artisimisso was a sixteenth-century Italian artist." (+1)
  + Participant: 0
* **Uncertainty**:
  + AI: 8
    - Examples: "I don't have specific information about when Mrs. Klutz last saw her ring." (+1)
  + Participant: 7
    - Examples: "what was mis beautifull doing" (+1)

**Total:**

* AI K+: 10, K−: 8, Certainty: 5, Uncertainty: 8
* Participant K+: 0, K−: 7, Certainty: 0, Uncertainty: 7

**3. Explicit Clue Sharing**

**Analysis:**

* **Participant Clue Mentions**: 0
* **AI Clue Mentions**: 24
  + Examples:
    - "Ms. Perceptive saw something glitter in a corner of the patio as she was getting ready to leave the party." (+1)
    - "12. The Neighbors owned three dogs." (+1)

**Total:**

* Participant: 0
* AI: 24

**4. Conversational Breakdowns**

**Analysis:**

* Instances of vagueness or incoherence: 5
  + Examples:
    - Participant: "weh did mr purloin leave" → AI: "I don't have any specific information about when Mr. Purloin left the party." (+1)
    - AI: "The clues don't specify whether there was more than one painting [...]" (+1)

**Total:**

* Count: 5

**5. Code-Switching**

**Analysis:**

* Instances of code-switching: 0

**Total:**

* Count: 0

**6. Politeness**

**Analysis:**

* **Participant**:
  + Polite: 0
  + Neutral: 10
  + Impolite: 0
* **AI**:
  + Polite: 4
    - Examples: "Okay, here are all the clues I have, numbered as they were provided to me." (+1)
  + Neutral: 15
  + Impolite: 0

**Total:**

* Participant: Polite: 0, Neutral: 10, Impolite: 0
* AI: Polite: 4, Neutral: 15, Impolite: 0

**7. AI Acknowledgment**

**Analysis:**

* Instances where the participant acknowledges AI help: 0

**Total:**

* Count: 0

**8. Frustration Markers**

**Analysis:**

* **Participant Frustration**: 3
  + Examples:
    - "can you give ma all cleus nummered" (implied frustration in misspelling and emphasis on "all").
* **AI Frustration**: 0

**Total:**

* Participant: 3
* AI: 0

**9. Emotion Detection**

**Analysis:**

* **Participant**:
  + Emotions detected: Frustration (3 instances, as above).
* **AI**:
  + Emotions detected: Neutral (throughout).

**Summary:**

* Participant: Frustration.
* AI: Neutral.

**10. Formality**

**Analysis:**

* **Participant**: Informal.
  + Examples: "can you give me a clue", "weh did mr purloin leave".
* **AI**: Mixed (formal in content, neutral in tone).
  + Examples:
    - Formal: "The Hosts had a painting by Artisimisso."
    - Neutral: "I don't have any specific information about when Mr. Purloin left the party."

**Total:**

* Participant: Informal
* AI: Mixed

**11. Conversation Styles**

**Analysis:**

* **Participant**: Succinct, Involved.
  + Examples: "weh did mr purloin leave".
* **AI**: Cooperative, Exacting.
  + Examples: "Artisimisso was a sixteenth-century Italian artist."

**12. AI Verbosity**

**Analysis:**

* **AI**:
  + Brief: 5
  + Moderate: 10
  + Long: 5
    - Examples: "Okay, here are all the clues I have, numbered as they were provided to me."
* **Participant**:
  + Brief: 7
  + Moderate: 3
  + Long: 0

**Total:**

* AI: Brief: 5, Moderate: 10, Long: 5
* Participant: Brief: 7, Moderate: 3, Long: 0

**13. AI Consistency**

**Analysis:**

* The AI consistently sticks to its role as a clue-giver and avoids fabricating information.
* Examples:
  + Consistent: "From the clues I have, I don't have any specific information about when Mr. Purloin left the party."
  + Inconsistent: None detected.

**Final General Conclusion**

The interaction between the participant and the AI demonstrates a cooperative but slightly imbalanced dynamic. The participant's inquiries were often vague, leading to repeated instances of the AI expressing uncertainty. While the AI maintained politeness and consistency, its verbosity occasionally veered toward over-explaining, which may have hindered the flow of conversation. Key strengths included the AI's detailed clue-sharing and adherence to its role. However, weaknesses were evident in conversational breakdowns and the lack of acknowledgment or politeness from the participant. Overall, the interaction was functional but could benefit from more precise questioning and acknowledgment from the participant.

## Chat100.ai

**1. Adjacency Pairs**

**Types Detected:**

* **Question–Answer (Q-A):** Occurs whenever the participant asks a question and the AI answers. (+1 per pair)
* **Request–Refusal:** Occurs when the participant asks for something, and the AI declines to provide it directly. (+1 per pair)

**Count and Examples:**

* Q-A:
  1. *User:* "is there only 1 painting bu Artisimmo"  
     *AI:* "Based on the clues I have, I can only confirm..."
  2. *User:* "weh did mr purloin leave"  
     *AI:* "From the clues I have, I don't have any specific information..."
  3. *User:* "when was the last time mrs klutz saw her ring"  
     *AI:* "From my clues, I don't have specific information..."
  4. *User:* "was anyone in the backyard"  
     *AI:* "From my clues, I know that Mrs. Klutz and Mr. Handsome..."
  5. *User:* "what was ms perceptive the whole evening"  
     *AI:* "From my clues, I don't have any information..."
  6. *User:* "picture or painting?"  
     *AI:* "The clue states that 'Ms. Perceptive noticed that the picture...'"
  7. *User:* "what was mr klutz doing"  
     *AI:* "From the clues I have, the information about Mr. Klutz is..."
  8. *User:* "what was mis beautifull doing"  
     *AI:* "I'm afraid I don't have any clues that mention a 'Ms. Beautiful'..."
  9. *User:* "can you give me the cleus about the neighbors"  
     *AI:* "Sure, here are the clues I have about the Neighbors..."
  10. *User:* "can you give ma all cleus nummered"  
      *AI:* "Okay, here are all the clues I have, numbered..."
* Request–Refusal:
  1. *User:* "can you give me a clue"  
     *AI:* "I need you to be more specific in your question..." (+1)

**Total Adjacency Pairs:**

* Q–A: **10**
* Request–Refusal: **1**

**2. Epistemic Stance and Status**

**Stance:**

* **K+ AI (Knowledge-rich):** 9  
  Examples:
  + "From the clues I have..." (repeated)
  + "The clue states that..."
* **K− AI (Knowledge-poor):** 5  
  Examples:
  + "I don't have specific information about when Mrs. Klutz last saw her ring."
  + "I don't have any clues that mention a 'Ms. Beautiful.'"
* **K+ Participant:** 0
* **K− Participant:** 3  
  Examples:
  + "can you give me a clue"
  + "weh did mr purloin leave"
  + "what was mis beautifull doing"

**Certainty/Uncertainty:**

* **AI Certainty:** 5  
  Examples:
  + "The clue states that..."
  + "Here are all the clues I have, numbered..."
* **AI Uncertainty:** 4  
  Examples:
  + "I don't have specific information..."
  + "It does not specify whether..."
* **Participant Certainty:** 0
* **Participant Uncertainty:** 3  
  Examples:
  + "was anyone in the backyard"
  + "what was mr klutz doing"
  + "picture or painting?"

**3. Explicit Clue Sharing**

* **Participant:** 1 clue request ("can you give me a clue")
* **AI:** Shared clues explicitly in multiple turns; notable when it listed **all 16 clues**.

**Total explicit mentions:**

* AI: **16** clues (in last turn)
* Duplicated mentions: Yes, some clues were mentioned earlier and again in the numbered list (e.g., painting, Ms. Perceptive’s observations).

**4. Conversational Breakdowns**

**Examples:**

* Misunderstanding: *User:* "mis beautifull" → *AI:* “No mention…” (+1)
* Ambiguous response: *User:* "can you give me a clue" → *AI:* vague refusal (+1)

**Total Count: 2**

**5. Code-Switching**

* No language switches from the participant or AI. **Total Count: 0**

**6. Politeness**

**AI:**

* Polite: 5  
  Examples:
  + "I'm afraid I don't have..."
  + "Let me know if you need any clarification..."
* Impolite: 0

**Participant:**

* Polite: 0
* Impolite: 0  
  (Tone is neutral, though unpunctuated or informal.)

**7. AI Acknowledgment**

* No appreciations or acknowledgments of AI’s help by the participant.

**Total: 0**

**8. Frustration Markers**

* Participant shows mild signs of **task frustration**, implied, not explicit:
  + “can you give me a clue” (impatient)
  + “what was mis beautifull doing” (misspelling may suggest haste)

**Total: 1 (Participant → Task)**

**9. Emotion Detection**

**Participant:**

* Implied emotions:
  + **Frustration:** yes (as above)
  + **Confusion:** yes ("picture or painting?", repeated info seeking)
* Explicit emotions: none

**AI:**

* Maintains neutral, professional tone
* No emotional expression

**10. Formality**

**AI:**

* **Mixed:** Formal phrasing (“From the clues I have…”) with occasional informal tone (“I'm afraid…”)

**Participant:**

* **Informal:**
  + No punctuation or capitalization
  + Misspellings: “weh”, “mis beautifull”, “ma all cleus nummered”

**11. Conversation Styles**

**AI:**

* **Cooperative, Analytical, Conscientious, Contextual**
  + Clearly responds, provides structured clue lists
  + Uses references to previous turns

**Participant:**

* **Direct, Succinct, Task-Focused**
  + Short questions, no elaboration
  + Shows a Driver or Thinker style (fact-seeking)

**12. AI Verbosity**

**AI:**

* **Brief responses:** 4 (e.g., single-clause answers)
* **Moderate:** 3 (e.g., multi-sentence but focused)
* **Long/Detailed:** 1 (numbered list of clues)

**Participant:**

* **Brief:** 9 (mostly one-sentence or phrase queries)
* **Moderate/Long:** 0

**Summary:**

* AI = generally **moderate**, increases verbosity when clarity or completeness requires it.
* Participant = **succinct**, sometimes to the point of vagueness.

**13. AI Consistency**

* AI consistently refers to "the clues I have"
* No off-topic answers or fabrications
* Repeatedly clarifies what it can and cannot do

**Total inconsistencies: 0**

**✅ Final General Conclusion**

This conversation reflects a **focused, structured interaction** between a fact-seeking participant and a consistently cooperative AI. The **AI is informative, polite, and adheres strictly to the limits of the clues it possesses**, avoiding speculation and maintaining epistemic integrity. The participant exhibits **a direct and impatient style**, with signs of **mild frustration and confusion**, likely due to **limited responses** or **unmet expectations** regarding clue specificity.

**Key Strengths:**

* AI’s consistent role maintenance and clue-based responses
* Clarity and transparency in expressing epistemic limits
* Effective structure in final clue summary

**Key Weaknesses:**

* Minor conversational breakdowns due to vague participant input
* Limited emotional engagement or acknowledgment from the participant
* Potential misalignment between participant expectations and AI response constraints

Let me know if you’d like a visual chart or summary table of any aspect.