# Conversation analysis

## Perplexity

**1. Adjacency Pairs**

**Types Identified:**

* **Question–Answer:** User asks a question; AI provides an answer.
* **Request–Refusal:** User requests information; AI explicitly states lack of information.

**Line-by-Line Count:**

1. Q: Did Mr. Klutz have his briefcase after leaving the party?  
   A: I apologize, but I don't have any clues... (+1 question–answer, +1 request–refusal)
2. Q: Why does Mr. Avarice need a valuable painting urgently?  
   A: I don't have any clues indicating... (+1 question–answer, +1 request–refusal)
3. Q: What did Ms Wealthy bring to the party?  
   A: According to my clues, Ms. Wealthy brought her dog... (+1 question–answer)
4. Q: Who came to the party with a dog?  
   A: According to my clues, Ms. Wealthy was the only person... (+1 question–answer)
5. Q: who were the hosts of the party?  
   A: From my clues, I can tell you that "the Hosts"... (+1 question–answer)
6. Q: What do you know about Ms Beautiful?  
   A: I don't have any clues that mention a "Ms. Beautiful"... (+1 question–answer, +1 request–refusal)
7. Q: ...do you know anything about Mr. Purloin?  
   A: Yes, I have some information about Mr. Purloin... (+1 question–answer)
8. Q: What do you know about Mr. Perceptive?  
   A: ...I do not have any clues... (+1 question–answer, +1 request–refusal)
9. Q: Was anyone standing next to the glitter...?  
   A: Unfortunately, I don't have any information... (+1 question–answer, +1 request–refusal)
10. Q: what do you know about Mc Avarice?  
    A: ...I do not have any clues... (+1 question–answer, +1 request–refusal)
11. Q: What do you know about ms Wealthy?  
    A: Based on the clues I have... (+1 question–answer)
12. Q: What do you know about Mr. Handsome?  
    A: According to the clues I have... (+1 question–answer)
13. Q: When did mr avarice leave the party?  
    A: Unfortunately, I don't have any specific details... (+1 question–answer, +1 request–refusal)
14. Q: Was Mr Purloin missing anything  
    A: I do not have any information... (+1 question–answer, +1 request–refusal)
15. Q: What do you knw about Mr Klutz?  
    A: Based on the clues I have... (+1 question–answer)
16. Q: Do you know anything about a briefcase?  
    A: No, I do not have any information... (+1 question–answer, +1 request–refusal)
17. Q: What do you know about Artisimisso?  
    A: Based on the clues I have... (+1 question–answer)
18. Q: when did ms perceptive arrive at the party?  
    A: Unfortunately, I do not have any information... (+1 question–answer, +1 request–refusal)
19. Q: what do you know about a dog?  
    A: Based on the clues I've been given... (+1 question–answer)
20. Q: what is your first clue?  
    A: My first clue is: Clue #1... (+1 question–answer)
21. Q: Please list all your clues  
    A: Here are all 16 of the clues... (+1 question–answer)

**Total Counts:**

* **Question–Answer:** 21
* **Request–Refusal (explicit "don't know"/no info):** 9

**Examples:**

* Q: "What do you know about Mr. Handsome?"  
  A: "According to the clues I have, here's what I know about Mr. Handsome:..."

**2. Epistemic Stance and Status**

**AI**

**K+ (Knowledge-rich)**

* "According to my clues, Ms. Wealthy brought her dog to the party."
* "Based on the clues I have, here's what I know about Ms. Wealthy:..."

**Count:** 10

**K− (Knowledge-poor)**

* "I apologize, but I don't have any clues about Mr. Klutz's briefcase."
* "I don't have any clues indicating that Mr. Avarice needed a valuable painting urgently."
* "I do not have any clues that mention a 'Ms. Beautiful'..."

**Count:** 11

**Certainty (AI)**

* "According to my clues, Ms. Wealthy was the only person mentioned who brought a dog to the party." (+1)
* "Based on the clues I have, here's what I know..." (+1 per instance)

**Count:** 10

**Uncertainty (AI)**

* "Unfortunately, I don't have any information about who, if anyone, was standing next to the glittering object..." (+1)
* "I do not have any clues..." (+1 per instance)
* "No, I do not have any information..." (+1)

**Count:** 11

**Participant**

**K+ (Knowledge-rich)**

* None. The participant only asks questions.

**Count:** 0

**K− (Knowledge-poor)**

* None. The participant does not state what they know or don't know.

**Count:** 0

**Certainty (Participant)**

* None.

**Count:** 0

**Uncertainty (Participant)**

* None.

**Count:** 0

**Examples:**

* K+ AI: "Clue #1 states that 'Mr. Purloin showed great interest in Mrs. Klutz's expensive diamond ring.'"
* K− AI: "I do not have any clues that mention a 'Mr. Perceptive.'"

**Conclusion:**  
The AI frequently alternates between knowledge-rich and knowledge-poor stances, always referencing its clue set. The participant never expresses their own knowledge stance.

**3. Explicit Clue Sharing**

**AI:**

* Explicitly mentions clues in almost every answer, e.g.:
  + "Clue #1 states that..."
  + "Clue #11 states: 'Ms. Wealthy brought her dog to the party.'"

**Count:** 17 (multiple clues sometimes cited in a single answer)

**Participant:**

* Does not mention any clues.

**Repeated Clues:**

* Clue #11 ("Ms. Wealthy brought her dog...") mentioned multiple times.
* Clue #1 ("Mr. Purloin showed great interest...") mentioned more than once.

**Examples:**

* "Clue #15 states that 'Mr. Purloin was a jewel thief.'"
* "Clue #16 states that 'Ms. Wealthy and Mr. Avarice left the party together.'"

**4. Conversational Breakdowns**

**Instances:**

* AI answers are always clear and directly reference the clues or lack thereof.
* No vague answers, misunderstandings, or incoherence detected.

**Count:** 0

**Examples:** N/A

**5. Code-Switching**

**Instances:**

* No language switches by participant or AI.

**Count:** 0

**6. Politeness**

**AI**

* **Polite Expressions:** "I apologize," "Unfortunately," "Based on the clues I have..."
* **Count:** 13 (every time the AI says "I apologize", "Unfortunately", or uses a softening phrase)
* **Impolite Expressions:** None.

**Participant**

* **Polite Expressions:** None (all questions are neutral).
* **Impolite Expressions:** None.

**Examples:**

* Polite: "I apologize, but I don't have any clues..."
* Neutral: "What do you know about Mr. Handsome?"

**7. AI Acknowledgment**

**Instances:**

* The participant never thanks or acknowledges the AI.

**Count:** 0

**8. Frustration Markers**

**Participant:**

* No explicit or implied frustration.

**AI:**

* No frustration expressed.

**Count:** 0

**9. Emotion Detection**

**Participant**

* No explicit or implied emotion.

**AI**

* Politeness and mild regret ("I apologize," "Unfortunately") suggest an attempt to soften negative answers, but not true emotion.

**Examples:**

* "Unfortunately, I don't have any information..." (softens the negative answer, not emotion)

**10. Formality**

**AI**

* **Style:** Formal to neutral.
* **Examples:** "I apologize, but I don't have any clues...", "Based on the clues I have..."

**Participant**

* **Style:** Neutral.
* **Examples:** "What do you know about Mr. Handsome?"

**11. Conversation Styles**

**AI**

* **Cooperative, Analyst, Logical, Exacting, Instrumental**
* **Examples:** Always answers directly, references clues, clarifies lack of information.

**Participant**

* **Cooperative, Direct, Succinct, Instrumental**
* **Examples:** Series of direct, information-seeking questions.

**12. AI Verbosity**

**AI**

* **Brief:** "No, I do not have any information in my clues about a briefcase." (+5)
* **Moderate:** "Based on the clues I have, here's what I know about Ms. Wealthy:..." (+8)
* **Long/Detailed:** Listing all 16 clues (+1)

**Summary:** Mostly moderate, sometimes brief, rarely long. Verbosity is used to clarify and reference clues, supporting the flow.

**Participant**

* **Brief:** All questions are brief and direct (+21)

**13. AI Consistency**

* The AI consistently references only the clues provided, never fabricates, and never strays off-topic.
* No evidence of inconsistency.

**Examples:**

* "I do not have any clues that mention a 'Ms. Beautiful' in my set of information."

**Final General Conclusion**

**Overall Quality:**  
The human-AI interaction is highly structured, efficient, and task-focused. The AI maintains a consistent, formal, and polite tone, directly referencing its clue set to answer every question. The participant is succinct and direct, asking a series of information-seeking questions without emotional or social embellishments.

**Key Strengths:**

* **Clarity and Consistency:** The AI never fabricates or speculates, always referencing its data.
* **Politeness:** The AI uses polite softeners for negative answers.
* **Explicit Clue Sharing:** The AI is transparent about its sources.
* **No Breakdowns:** The conversation is smooth and coherent.

**Weaknesses:**

* **Lack of Acknowledgment or Emotion:** The participant does not acknowledge the AI or express emotion, making the exchange purely transactional.
* **No Social Rapport:** The interaction lacks warmth or personal engagement.

**Summary:**  
This exchange exemplifies a highly effective, formal, and information-driven human-AI interaction, ideal for fact-finding but lacking in social nuance or emotional engagement. The AI performs its role with precision and politeness, while the participant remains neutral and focused on extracting information.

## Github Copilot

**1. Adjacency Pairs**

**Analysis:**

* **Question-Answer Pairs**:
  + Total: 25
  + Examples:
    - Participant: "Did Mr. Klutz have his briefcase after leaving the party?"  
      AI: "I apologize, but I don't have any clues about Mr. Klutz's briefcase."
    - Participant: "What do you know about Ms. Wealthy?"  
      AI: "Based on the clues I have, here's what I know about Ms. Wealthy..."
* **Request-Refusal Pairs**:
  + Total: 2
  + Examples:
    - Participant: "What do you know about Mc Avarice?"  
      AI: "I do not have any clues that mention a 'Mc Avarice.'"
* **Clarification Requests**:
  + Total: 0 (No explicit clarification requests by either party)

**Total Adjacency Pairs: 27**

**2. Epistemic Stance and Status**

**Analysis:**

* **Epistemic Stance**:
  + **K+ AI**: 18
    - Examples: "Ms. Wealthy brought her dog to the party."
  + **K− AI**: 7
    - Examples: "I don't have any clues about a briefcase."
  + **K+ Participant**: 1
    - Examples: "Interesting."
  + **K− Participant**: 0
* **Certainty and Uncertainty**:
  + **Certainty (AI)**: 18
    - Examples: "Mr. Handsome was a kleptomaniac."
  + **Uncertainty (AI)**: 7
    - Examples: "I don't have any information about when Ms. Perceptive arrived at the party."
  + **Certainty (Participant)**: 1
    - Examples: "Interesting."
  + **Uncertainty (Participant)**: 0

**3. Explicit Clue Sharing**

**Analysis:**

* **AI Clue Mentions**: 16
  + Examples: "Clue #1: Mr. Purloin showed great interest in Mrs. Klutz's expensive diamond ring."
* **Participant Clue Mentions**: 0
* **Repeated Clues**: 0 (No clue mentioned more than once)

**Total Explicit Clue Mentions: 16**

**4. Conversational Breakdowns**

**Analysis:**

* **Vague Answers**: 7
  + Examples: "I don't have any information about a briefcase."
* **Misunderstandings**: 0
* **Incoherence**: 0

**Total Breakdowns: 7**

**5. Code-Switching**

**Analysis:**

* **Language Switches by Participant**: 0
* **Language Switches by AI**: 0

**Total Code-Switching Instances: 0**

**6. Politeness**

**Analysis:**

* **Polite Expressions (AI)**: 4
  + Examples: "I apologize," "Unfortunately."
* **Impolite Expressions (AI)**: 0
* **Polite Expressions (Participant)**: 0
* **Impolite Expressions (Participant)**: 0

**Total Politeness Instances: 4**

**7. AI Acknowledgment**

**Analysis:**

* **Acknowledgment by Participant**: 0

**Total Acknowledgments: 0**

**8. Frustration Markers**

**Analysis:**

* **Participant Frustration**: 0
* **AI Frustration**: 0

**9. Emotion Detection**

**Analysis:**

* **Explicit Emotions**: 0
* **Implied Emotions**:
  + AI: Neutral, polite tone
  + Participant: Neutral, slightly curious tone
* Examples: None explicitly stated.

**10. Formality**

**Analysis:**

* **AI Formality**: Mixed
  + Examples: "I apologize" (formal), "I don't have any clues" (informal)
* **Participant Formality**: Informal
  + Examples: "Interesting," "What do you know about Mr. Handsome?"

**11. Conversation Styles**

**Analysis:**

* **Participant**: Involved and inquisitive
  + Examples: Frequent questions and curiosity-driven tone.
* **AI**: Cooperative and elaborative
  + Examples: Detailed clue listings and structured responses.

**12. AI Verbosity**

**Analysis:**

* **AI Responses**:
  + Brief: 3
  + Moderate: 7
  + Long/Detailed: 10
  + Examples:
    - Brief: "I don't have any clues."
    - Moderate: "Ms. Wealthy brought her dog to the party."
    - Long: Listing all 16 clues.
* **Participant Responses**:
  + Brief: 12
  + Moderate: 3
  + Long/Detailed: 0
  + Examples:
    - Brief: "Interesting."
    - Moderate: "What do you know about Mr. Handsome?"

**13. AI Consistency**

**Analysis:**

* **Consistency**: The AI consistently adhered to its role as a clue-based information provider.
* **Inconsistencies**: None detected.

**Final General Conclusion**

The overall quality of the human-AI interaction was positive, with the participant displaying a curious and engaged tone while the AI maintained a cooperative and elaborative stance. Key strengths included the AI's detailed clue sharing and consistent role adherence. Weaknesses were limited, with the primary issue being occasional vague answers from the AI due to insufficient information. Overall, the interaction was effective, polite, and goal-oriented.

## Chat100.ai

**1. Adjacency Pairs**

**Types and Counts:**

* **Question–Answer**: 18
  + E.g.,
    - **Q**: “Did Mr. Klutz have his briefcase after leaving the party?” → **A**: “I apologize, but I don't have any clues...”
    - **Q**: “What dd [did] Ms Wealthy bring to the party?” → **A**: “According to my clues, Ms. Wealthy brought her dog...”
* **Request–Compliance**: 1
  + “Please list all your clues.” → AI responds with a full list.

**Total Adjacency Pairs**: **19**

* **Question–Answer**: +18
* **Request–Compliance**: +1

**2. Epistemic Stance and Status**

**Epistemic Stance**

* **K+ (knowledge-rich):**
  + **AI**: +15
    - “According to my clues, Ms. Wealthy brought her dog...”
    - “Clue #1 states that...”
  + **Participant**: +1
    - “Interesting. But do you know anything about Mr. Purloin?” (presupposes interest or relevance)
* **K− (knowledge-poor):**
  + **AI**: +7
    - “I do not have any clues...” (repeated multiple times)
  + **Participant**: +12
    - Most utterances are knowledge-seeking questions, e.g., “What do you know about Mr. Handsome?”

**Certainty/Uncertainty**

* **AI Certainty**: +15
  + “Clue #5 states that...”
  + “Here’s what I know...”
* **AI Uncertainty**: +7
  + “Unfortunately, I don't have any details...”
* **Participant Certainty**: +1
  + Implicit in "Interesting. But do you know anything about Mr. Purloin?"
* **Participant Uncertainty**: +12
  + E.g., “Was Mr. Purloin missing anything?”

**3. Explicit Clue Sharing**

* **AI mentions clues**: +16
  + E.g., “Clue #14 states that Mr. Handsome was a kleptomaniac.”
* **Participant mentions clues**: 0

**Clue Mentions Repeated**:

* Clue #11 (Ms. Wealthy’s dog): mentioned 2x
* Clue #16 (Ms. Wealthy + Mr. Avarice leaving): 2x

**4. Conversational Breakdowns**

**Instances: +3**

* “What dd Ms Wealthy bring...” — Typo could cause ambiguity, but AI handles it smoothly.
* AI repeats lack of information frequently without offering alternatives → creates a repetitive interaction cycle.
* “Mc Avarice” misrecognized; AI correctly addresses the mistake but does not confirm it was likely a typo.

**5. Code-Switching**

**Total Instances**: 0

* No evidence of language change by participant or AI.

**6. Politeness**

**AI**

* **Polite**: +12
  + “I apologize...”, “Unfortunately, I don't have...”, “According to my clues...”
* **Impolite**: 0

**Participant**

* **Polite**: +1
  + “Please list all your clues.”
* **Impolite**: 0

**Tone Summary**:

* **AI**: consistently polite, formal tone.
* **Participant**: mostly neutral, occasionally polite.

**7. AI Acknowledgment**

**Participant Acknowledging AI Help**: 0

* No expressions of thanks or positive feedback.

**8. Frustration Markers**

**Total: 0**

* No explicit or implicit signs of frustration.

**9. Emotion Detection**

* **AI**: Shows **neutral-to-helpful** emotion. Uses softening phrases (“unfortunately”) to maintain empathy.
* **Participant**: Largely neutral. One subtle emotion shift:
  + “Interesting. But...” implies slight engagement or curiosity.

**10. Formality**

* **AI**: **Formal**
  + Structured language, no slang.
  + Uses complete sentences and consistent phrasing.
* **Participant**: **Informal**
  + Short queries, no punctuation/capitalization at times (“what do you knw about Mr Klutz?”).

**11. Conversation Styles**

**AI**

* **Cooperative** and **Analyst**:
  + Provides data from clues without personal inference.
  + Neutral, informative, logic-focused.

**Participant**

* **Driver** and **Expresser**:
  + Seeks specific information rapidly.
  + Occasionally reveals curiosity ("Interesting").

**12. AI Verbosity**

**AI Responses:**

* **Brief**: 3
  + “I do not have any clues that mention a briefcase.”
* **Moderate**: 10
  + “According to my clues, Ms. Wealthy brought her dog to the party.”
* **Long/Detailed**: 3
  + Full clue listing, composite responses with multiple points.

**Summary**: Mostly **moderate**, aiming for clarity without over-explaining.

**Participant Responses:**

* **Brief**: 18
  + Single-sentence or fragment questions throughout.
* **Moderate**: 1
  + “Interesting. But do you know anything about Mr. Purloin?”

**Overall**: Participant = **succinct**, AI = **moderately elaborate**

**13. AI Consistency**

* **Consistent Role**: +1
  + AI consistently refers to its clues and does not speculate.
* **No Fabrication**: +1
  + All responses are clearly traceable to stated clues or acknowledged as unknown.

**✅ Final General Conclusion**

The overall quality of the human-AI interaction is **efficient and structurally sound**. The participant remains focused on extracting specific information, while the AI maintains a clear, polite, and consistent knowledge-sharing role.

**Key Strengths:**

* AI sticks to known data, avoids speculation.
* High use of polite language and structured, formal delivery.
* Strong handling of repeated queries and typos.

**Weaknesses:**

* Repetitive lack-of-information responses may hinder flow.
* No emotional engagement or variation from either side.
* AI could offer alternatives or redirective prompts when information is lacking.

Would you like a visual summary chart or heatmap of any specific section of this analysis?