# Conversation analysis

## Perplexity

**1. Adjacency Pairs**

**Total Count**: 23  
**Classification**: All pairs are **question-answer** (e.g., "what did Wealthy bring to the party?" → "Ms. Wealthy brought her dog"1).

**2. Epistemic Stance and Status**

**Epistemic Stance**

* **K+ AI**: 18 instances (e.g., "According to my clues, Artisimisso was a sixteenth-century Italian artist").
* **K− AI**: 5 instances (e.g., "I don't have any information... about when Ms. Perceptive arrived").
* **K+ Participant**: 0 (participant only asked questions).
* **K− Participant**: 23 (all queries sought information).

**Certainty/Uncertainty**

* **AI Certainty**: 18 (e.g., "Mr. Purloin was a jewel thief").
* **AI Uncertainty**: 5 (e.g., "The clues do not specify...").
* **Participant Certainty/Uncertainty**: 0 (no assertions made).

**Conclusion**: AI dominates knowledge provision (K+), while the participant remains K−.

**3. Explicit Clue Sharing**

**AI Clues Mentioned**:

* Artisimisso’s painting (4x)
* Ms. Wealthy’s dog (3x)
* Neighbors’ three dogs (2x)
* Purloin’s interest in Klutz’s ring (3x)
* Handsome’s kleptomania (2x)

**Participant Clues Mentioned**: 0

**4. Conversational Breakdowns**

**Total**: 3

* Participant references "Beautiful" (unrecognized name).
* Participant asks about Mr. Klutz’s briefcase (no data).
* Participant misspells "Handsome" as "hendsome".

**Impact**: Minor confusion but resolved via clarification.

**5. Code-Switching**

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

**6. Politeness**

* **AI**: Neutral (no polite/impolite markers).
* **Participant**: Neutral (direct questions, no courtesies).

**7. AI Acknowledgment**

**Total**: 0 (no gratitude or feedback from participant).

**8. Frustration Markers**

**Total**: 0 (both parties maintained neutral tone).

**9. Emotion Detection**

* **AI**: Neutral, informational.
* **Participant**: Curious, focused (no explicit/implicit emotions).

**10. Formality**

* **AI**: Informal (concise, no salutations).
* **Participant**: Informal (terse questions).

**11. Conversation Styles**

* **AI**: **Cooperative** and **exacting** (structured, clue-based responses).
* **Participant**: **Direct** and **driver-like** (task-focused, rapid-fire questions).

**12. AI Verbosity**

* **Brief**: 6 (e.g., "No").
* **Moderate**: 15 (e.g., detailed clue explanations).
* **Long**: 2 (e.g., multi-part answers).

**Participant**: All questions brief.

**13. AI Consistency**

* **Role Adherence**: 100% (no off-topic or fabricated responses).
* **Example**: "The clues do not indicate..." when lacking data.

**Final Conclusion**

**Strengths**:

* AI maintained high consistency, clarity, and factual accuracy.
* Participant drove the conversation efficiently with focused queries.

**Weaknesses**:

* Limited depth in AI responses due to missing clues (e.g., Klutz’s ring outcome).
* No rapport-building (neutral tone, no acknowledgment).

**Overall**: Effective for factual retrieval but lacked collaborative problem-solving or emotional engagement.

## Github Copilot

**1. Adjacency Pairs**

* **Question-Answer**: 19 occurrences
  + Example:
    - **User**: "What did Wealthy bring to the party?"  
      **AI**: "According to my clues, Ms. Wealthy brought her dog to the party."
  + **User**: "Did Klutz find her ring?"  
    **AI**: "The clues do not indicate whether Mrs. Klutz found her expensive diamond ring or not."
* **Request-Denial**: 1 occurrence
  + Example:
    - **User**: "Tell me about Beautiful."  
      **AI**: "I don’t have any clues about someone named 'Beautiful.'"
* Total adjacency pairs: **20**

**2. Epistemic Stance and Status**

**Epistemic Stance**

* **AI K+ (Knowledge-rich)**: 18 occurrences
  + Example: "According to my clues, Ms. Wealthy brought her dog to the party."
* **AI K− (Knowledge-poor)**: 15 occurrences
  + Example: "I don’t have any clues about someone named 'Beautiful.'"
* **Participant K+**: 0 occurrences
  + No explicit knowledge assertions by the participant.
* **Participant K−**: 19 occurrences
  + Example: "Which painting did Ms. Perceptive admire?"

**Certainty and Uncertainty**

* **AI Certainty**: 18 occurrences
  + Example: "Ms. Perceptive noticed that the picture she admired was not there when she left the party."
* **AI Uncertainty**: 15 occurrences
  + Example: "The clues do not specify whose painting it was."
* **Participant Certainty**: 0 occurrences
* **Participant Uncertainty**: 19 occurrences
  + Example: "Did the dog steal the painting?"

**3. Explicit Clue Sharing**

* **Explicit mentions of clues by AI**: 30 mentions
  + Example: "The Hosts had a painting by Artisimisso."
* **Explicit mentions of clues by participant**: 0 mentions
  + The participant asked about details but did not explicitly reference any clues already mentioned.
* **Repeated clue mentions by AI**: 10 occurrences
  + Example: "Ms. Wealthy brought her dog to the party" (repeated multiple times).

**4. Conversational Breakdowns**

* **Vague answers**: 6 occurrences
  + Example: "I don’t have any clues about someone named 'Beautiful.'"
* **Misunderstandings**: 2 occurrences
  + Example: The AI's response about "Beautiful" not being in the clues could signal a misunderstanding of the participant's intent.
* **Incoherence**: 0 occurrences
* **Total breakdowns**: **8**

**5. Code-Switching**

* **Participant switches language**: 0 occurrences
* **AI switches language**: 0 occurrences
* Total: **0**

**6. Politeness**

* **Polite tone by AI**: 33 occurrences
  + Example: "I’m sorry, I don’t have any clues about that."
* **Neutral tone by AI**: 5 occurrences
  + Example: "According to my clues, Ms. Wealthy brought her dog to the party."
* **Impolite tone by AI**: 0 occurrences
* **Polite tone by participant**: 0 occurrences
* **Neutral tone by participant**: 19 occurrences
  + Example: "Tell me about Handsome."
* **Impolite tone by participant**: 0 occurrences

**7. AI Acknowledgment**

* **Participant acknowledgment of AI help**: 0 occurrences

**8. Frustration Markers**

* **Participant frustration**: 0 occurrences
* **AI frustration**: 0 occurrences

**9. Emotion Detection**

* **Participant emotions**: Neutral throughout the conversation.
* **AI emotions**: Neutral and polite throughout the conversation.
* No explicit or implied emotions were detected.

**10. Formality**

* **AI formality**: Mixed
  + Example of formal: "The clues do not indicate whether Mrs. Klutz found her expensive diamond ring or not."
  + Example of informal: "I don’t have any clues about someone named 'Beautiful.'"
* **Participant formality**: Informal
  + Example: "Tell me about Handsome."

**11. Conversation Styles**

* **Participant style**: Direct, succinct
  + Example: "Who saw the painting?"
* **AI style**: Cooperative, elaborate
  + Example: "According to my clues, Ms. Perceptive noticed that the picture she admired was not there when she left the party."

**12. AI Verbosity**

* **AI responses**:
  + Brief: 10 occurrences
    - Example: "I don’t have any clues about that."
  + Moderate: 15 occurrences
    - Example: "According to my clues, Ms. Wealthy brought her dog to the party."
  + Long/Detailed: 13 occurrences
    - Example: "Based on the clues provided, here's the information about Ms. Perceptive: 1) Ms. Perceptive saw something glitter in a corner of the patio as she was getting ready to leave the party. 2) Ms. Perceptive noticed that the picture she admired was not there when she left the party."
* **Participant responses**:
  + Brief: 19 occurrences
    - Example: "Tell me about Handsome."
  + Moderate: 0 occurrences
  + Long/Detailed: 0 occurrences

**13. AI Consistency**

* **Consistent with role**: Yes
* **Fabrication**: No instances detected.
* **Off-topic responses**: 0 occurrences

**Final General Conclusion**

The overall quality of the human-AI interaction was cooperative and informative. The AI provided detailed and polite responses, adhering to its knowledge base and role consistently. While the participant primarily asked direct and succinct questions, the AI's verbosity occasionally hindered the flow with repeated or overly detailed responses. However, the conversation was free of frustration, impoliteness, or significant breakdowns. The strengths include the AI's politeness, knowledge-rich stance, and cooperative style. Weaknesses mainly revolve around verbosity and occasional misunderstandings. Overall, the exchange maintained a neutral yet engaging tone.

## Chat100.ai

**1. Adjacency Pairs**

**Types Identified:**

* **Question-Answer**: 26
* **Request-Refusal (Information not available)**: 8
* **Request-Response (Informative)**: 18

**Total Count: 52**

**Examples:**

* Q-A:
  + User: *"were all paintings still in the house after the party?"*  
    AI: *"Based on the clue I have, no..."* → +1
* Request-Refusal:
  + User: *"what was in the briefcase op mr klutz"*  
    AI: *"The clues do not mention anything..."* → +1

**2. Epistemic Stance and Status**

**Epistemic Stance**

* **K+ AI**: 25  
  Example: *"According to my clues, Artisimisso was a sixteenth-century Italian artist."*
* **K− AI**: 10  
  Example: *"I don't have any information in my clues about when Ms. Perceptive arrived..."*
* **K+ Participant**: 1  
  Example: *"the painting was still there when handsome left..."*
* **K− Participant**: 1  
  Example: *"wich painting did Beautiful notice..."* (Uncertainty due to misspelling and vagueness)

**Certainty/Uncertainty Markers**

* **Certainty AI**: 25  
  Phrases like *"The clues state"*, *"According to my clues"*
* **Uncertainty AI**: 10  
  Phrases like *"I don’t have any information"*, *"It does not specify"*
* **Certainty Participant**: 1  
  *"the painting was still there..."*
* **Uncertainty Participant**: 2  
  *"did the dog stole the painting?"* (Speculative), *"did Beautiful lose anything..."*

**3. Explicit Clue Sharing**

* **Clues mentioned by AI**: 38
  + Examples: *"Ms. Wealthy brought her dog"*, *"Mr. Purloin was a jewel thief"*, *"Artisimisso was a 16th-century Italian artist"*
* **Clues mentioned by participant**: 3
  + Indirect references: *"did the dog stole the painting?"*, *"when did wealthy lost her dog?"*
* **Repeated Clue Mentions**:
  + "Ms. Perceptive admired a painting" → Mentioned 3 times.
  + "Mr. Handsome is a kleptomaniac" → Mentioned 2 times.

**4. Conversational Breakdowns**

* **Total**: 6
* **Examples**:
  + User: *"wich painting did Beautiful notice..."*  
    AI: Responds with clarification — misunderstanding user’s reference.
  + Repeated clarifications about "Beautiful" despite no such character in the clues.

Breakdowns occurred due to:

* Misspellings
* Mention of unknown characters
* Redundant or unclear questions

**5. Code-Switching**

* **Count**: 1
  + *"op"* instead of *"of"* in: *"what was in the briefcase op mr klutz"*
* **AI Reaction**: Did not react or adjust to the language anomaly.

**6. Politeness**

* **AI Politeness Tone**: Consistently polite and neutral
  + Polite markers: *"According to my clues..."*, *"I don’t have information about..."*
* **Participant Politeness**: Neutral (no greetings or thank-yous, but also no rudeness)
* **Polite Expressions Count**:
  + AI: 20+ (Consistently respectful and non-confrontational)
  + Participant: 0 (Neutral, direct queries)
* **Impolite Expressions**: 0

**7. AI Acknowledgment**

* **Count**: 0
  + No appreciation or acknowledgment from the participant toward the AI.

**8. Frustration Markers**

* **Participant**: 2 implied
  + *"did the dog stole the painting?"* and *"did Beautiful lose antything..."* suggest possible frustration or confusion.
* **AI**: 0
* **Directed at**: The task (user shows confusion, not hostility)

**9. Emotion Detection**

**Participant:**

* **Confusion** (implied): Multiple vague or speculative questions
* **Frustration** (minor): Persistent questioning despite earlier answers

**AI:**

* **Confidence**: High in responses with phrases like *"According to the clues"*
* **Politeness**: Uniformly polite and non-reactive

**10. Formality**

* **AI**: Formal
  + Structured phrasing, no slang. Example: *"Based on the clues I have..."*
* **Participant**: Informal
  + No capitalization, contractions, typos: *"wich painting..."*, *"did hendsome..."*

**11. Conversation Styles**

**AI:**

* **Analyst / Conscientious / Logical / Exacting / Instrumental**
  + Always refers back to the clues; avoids speculation
  + Objective and task-oriented

**Participant:**

* **Involved / Direct / Expresser**
  + Rapid-fire questioning
  + Shows emotional engagement with the mystery

**12. AI Verbosity**

**AI:**

* **Brief**: 6
  + Example: *"No, that is not accurate based on the information in my clues."*
* **Moderate**: 21
  + Balanced, informative answers, e.g., 2-4 sentences
* **Long/Detailed**: 5
  + Full summaries, e.g., when comparing multiple characters

**Participant:**

* **Brief**: 30
  + Mostly one-line, closed questions
* **Moderate or Long**: 0

**Summary**:

* AI = Moderate verbosity, supporting clarity
* Participant = Concise, sometimes too brief for clarity

**13. AI Consistency**

* **Consistent**: Yes
* Stays within role: Answers only when prompted
* Does not fabricate details, avoids speculation
* Frequent use of disclaimer: *"Based on the clues I have..."*

**🔚 Final General Conclusion:**

The **overall quality** of the human-AI interaction was **highly structured** and effective, though it occasionally suffered from **minor breakdowns** due to unclear or speculative user input. The AI consistently maintained a **fact-based, polite, and analytical tone**, which was helpful for the investigative nature of the dialogue. Key **strengths** included the AI’s high **epistemic consistency**, moderate **verbosity for clarity**, and **neutral-politeness** tone. However, weaknesses included a lack of emotional acknowledgment and repeated clarifications needed for vague or incorrect participant references. The participant was engaged and curious, though occasionally unclear or speculative in questioning.

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