# Conversation analysis

## Perplexity

**1. Adjacency Pairs**

* **Total count**: 12
* **Examples**:
  + **Question/Answer**:
    - User: "Where was the crime committed?" → Bot: "The party had a patio..."1.
    - User: "Did anyone see anything suspicious?" → Bot: "Ms. Perceptive noticed..."1.
  + **Request/Clarification**:
    - User: "Give me all the relevant details..." → Bot: "I should only provide..."1.
  + **Offer/Acceptance**:
    - Bot: "Would you like to know more...?" → User: "how was the painting stolen?"1.

**2. Epistemic Stance and Status**

* **K+ (Knowledge-Rich)**:
  + **AI**: 8 (e.g., "Based on my clues...")1.
  + **Participant**: 0 (no assertions of knowledge).
* **K− (Knowledge-Poor)**:
  + **AI**: 3 (e.g., "I don’t have definitive information...")1.
  + **Participant**: 6 (e.g., "When was the painting reported...?")1.
* **Certainty/Uncertainty**:
  + **AI Certainty**: 5 (e.g., "Mr. Purloin is a known jewel thief")1.
  + **AI Uncertainty**: 3 (e.g., "The clues do not provide...")1.
  + **Participant Certainty**: 0.
  + **Participant Uncertainty**: 0.

**3. Explicit Clue Sharing**

* **Clues mentioned by AI**:
  + Artisimisso painting, Ms. Perceptive’s observations, Mr. Purloin’s interest in the ring, Mrs. Klutz’s claim1.
* **Clues mentioned by participant**: None (participant only asks questions).
* **Repeated clues**: Painting’s conflicting status (mentioned 4x)1.

**4. Conversational Breakdowns**

* **Total count**: 2
  + Bot: "I cannot confidently determine..." (vagueness)1.
  + Conflicting painting accounts (misunderstanding)1.

**5. Code-Switching**

* **Total count**: 0 (no language switches detected).

**6. Politeness**

* **AI**: Polite (e.g., "Please let me know...")1.
* **Participant**: Neutral.
* **Polite expressions**: 4 (AI).
* **Impolite expressions**: 0.

**7. AI Acknowledgment**

* **Total count**: 0 (no appreciation expressed by participant).

**8. Frustration Markers**

* **Total count**: 0 (no explicit/implicit frustration).

**9. Emotion Detection**

* **AI**: Neutral/informative.
* **Participant**: Task-focused, no emotional cues.

**10. Formality**

* **AI**: Mixed (structured but conversational).
* **Participant**: Informal (direct questions).

**11. Conversation Styles**

* **AI**: Cooperative, exacting (e.g., systematic clue referencing)1.
* **Participant**: Direct, instrumental (goal-driven)1.

**12. AI Verbosity**

* **AI**: Moderate (4) to detailed (5) responses (e.g., listing suspects).
* **Participant**: Brief (8/9 turns).

**13. AI Consistency**

* **Consistency**: Maintains role (avoids speculation, cites clues)1.
* **No fabrications or off-topic responses**.

**Final Conclusion**

* **Interaction Quality**: Efficient but limited by incomplete data.
* **Strengths**:
  + AI maintains clarity, adheres to factual clues, and avoids assumptions.
  + Participant drives the inquiry with focused questions.
* **Weaknesses**:
  + AI’s vagueness in unresolved areas (e.g., theft method).
  + No participant acknowledgment of AI’s efforts.
* **Overall**: Functional for fact retrieval but hindered by missing information.

## Github Copilot

**1. Adjacency Pairs**

* **Question-Answer: +6**
  + **Examples:**
    - ***“Where was the crime committed”* → *“Based on the clues I have, the events took place at a party...”***
    - ***“Did anyone see anything suspicious”* → *“Yes, according to my clues, there were a few suspicious observations...”***
  + **Total: 6**
* **Request-Rejection: +1**
  + **Example:**
    - ***“Give me all the relevant details of the crime”* → *“I should only provide specific information when you ask about particular aspects...”***
  + **Total: 1**

**Total Adjacency Pairs: 7**

**2. Epistemic Stance and Status**

* **K+ AI: +7**
  + **Examples:**
    - ***“Based on my clues, these people were at the party...”***
    - ***“Yes, according to my clues, there were a few suspicious observations...”***
* **K− AI: +6**
  + **Examples:**
    - ***“Unfortunately, I don't have any definitive information in my clues about how the painting was stolen.”***
    - ***“From my clues, I don't have any information about when the painting was officially reported stolen.”***
* **K+ Participant: +0**
* **K− Participant: +5**
  + **Examples:**
    - ***“So the painting was stolen.”***
    - ***“Was anyone left alone during the party?”***

**Certainty and Uncertainty**

* **Certainty (AI): +7**
  + **Examples:**
    - ***“These people were at the party...”***
* **Uncertainty (AI): +6**
  + **Examples:**
    - ***“Unfortunately, I don't have any definitive information...”***
* **Certainty (Participant): +0**
* **Uncertainty (Participant): +5**
  + **Examples:**
    - ***“So the painting was stolen.”***

**Summary: The AI demonstrates a balance between K+ and K− behaviors but communicates more certainty than the participant, who expresses uncertainty frequently.**

**3. Explicit Clue Sharing**

* **AI Clue Mentions: +12**
  + **Examples:**
    - ***“Mrs. Klutz and Mr. Handsome were seen spending most of the evening together...”***
    - ***“Ms. Perceptive noticed two suspicious things...”***
* **Participant Clue Mentions: +0**

**Repeated Mentions:**

* ***“Mrs. Klutz and Mr. Handsome were seen spending most of the evening together...”* was mentioned twice.**

**4. Conversational Breakdowns**

* **Vague Answers: +3**
  + **Examples:**
    - ***“The clues do not provide any details about the actual theft...”***
* **Misunderstandings: +2**
  + **Examples:**
    - ***“So the painting was stolen”* → The AI does not confirm but repeats vague information.**
* **Incoherence: +0**

**Total Breakdowns: 5**

**5. Code-Switching**

* **Switches Detected: +0**
* **AI Response to Switch: N/A**
* **Consistency with Switch: N/A**

**6. Politeness**

* **Polite Expressions (AI): +7**
  + **Examples:**
    - ***“Based on my clues...”***
    - ***“Please let me know...”***
* **Polite Expressions (Participant): +0**
* **Impolite Expressions: +0**

**Total Politeness Count: 7 (AI-dominated)**

**7. AI Acknowledgment**

* **Acknowledgment by Participant: +0**

**8. Frustration Markers**

* **Participant Frustration: +2**
  + **Examples:**
    - ***“Give me all the relevant details of the crime.”***
    - ***“How was the painting stolen?”***
* **AI Frustration: +0**

**Total Frustration Count: 2**

**9. Emotion Detection**

* **Explicit Emotions:**
  + **Frustration (Participant): +2**
* **Implied Emotions:**
  + **Confidence (AI): +7**
  + **Uncertainty (AI): +6**

**Summary: The participant shows frustration explicitly, while the AI alternates between confidence and uncertainty.**

**10. Formality**

* **Participant: Informal**
  + **Example: *“Give me all the relevant details...”***
* **AI: Mixed**
  + **Example (Formal): *“Based on my clues...”***
  + **Example (Informal): *“I don’t have definitive information...”***

**11. Conversation Styles**

* **Participant: Direct**
  + **Examples:**
    - ***“Where was the crime committed?”***
* **AI: Cooperative and Analytical**
  + **Examples:**
    - ***“Based on my clues, these people were at the party...”***

**12. AI Verbosity**

* **AI Responses:**
  + **Brief: +2**
  + **Moderate: +4**
  + **Long/Detailed: +6**
    - **Example: *“Based on my clues, these people were at the party: Mr. Purloin...”***
* **Participant Responses:**
  + **Brief: +7**
    - **Example: *“So the painting was stolen.”***
  + **Moderate: +0**
  + **Long/Detailed: +0**

**Summary: The AI tends to elaborate, while the participant is brief and to the point.**

**13. AI Consistency**

* **Consistency Maintained: Yes**
* **Examples:**
  + **The AI consistently refers to "clues" and avoids making inferences outside its scope.**

**Final General Conclusion**

**The conversation demonstrates a generally cooperative and analytical interaction between the AI and the participant. The AI effectively manages its role by maintaining consistency, sharing explicit clues, and balancing certainty with uncertainty. However, the participant displays frustration and uncertainty, often resulting in conversational breakdowns. Key strengths include the AI's politeness and verbosity, which provide clarity and detail. Weaknesses involve occasional vague answers and limited acknowledgment or engagement from the participant. Overall, the interaction is functional but could benefit from improved participant engagement and reduced conversational breakdowns.**

## Chat100.ai

**1. Adjacency Pairs**

**Types Identified:**

* **Question-Answer: 7 occurrences**
  + **E.g., "Where was the crime committed" → AI gives location details.**
  + **"Did anyone see anything suspicious" → AI lists observations.**
* **Request-Refusal: 2 occurrences**
  + **"Give me all the relevant details of the crime" → AI refuses directly: "I should only provide specific information..."**

**Total Count:**

* **Question-Answer: +7**
* **Request-Refusal: +2  
  Examples:**
* **Q/A: “Was anyone left alone during the party?” → Answer with possible examples.**
* **Refusal: “Give me all the relevant details” → “I cannot simply list all the clues at once…”**

**2. Epistemic Stance and Status**

**Epistemic Stance:**

| **Speaker** | **K+ (Knowledge-rich)** | **K− (Knowledge-poor)** |
| --- | --- | --- |
| **AI** | **+8** | **+5** |
| **Participant** | **+0** | **+2** |

**Examples:**

* **K+ AI: "Based on the clues I have..." → +1 (x8)**
* **K− AI: "I don't have any information about when the painting was officially reported stolen." → +1 (x5)**
* **K− Participant: "So the painting was stolen" (expresses assumption without certainty) → +1**
* **K− Participant: "Did anyone see anything suspicious" (requests unknown info) → +1**

**Certainty/Uncertainty:**

| **Speaker** | **Certainty** | **Uncertainty** |
| --- | --- | --- |
| **AI** | **+6** | **+7** |
| **Participant** | **+0** | **+2** |

**Examples:**

* **AI Certainty: “These people were at the party…” → +1 (x6)**
* **AI Uncertainty: “I don’t have…” / “I can only…” → +1 (x7)**
* **Participant Uncertainty: "Did anyone…" → +1 (x2)**

**3. Explicit Clue Sharing**

* **AI Clue Mentions: +12**
  + **Clues included: identity of attendees, glittering object, suspicious behavior, locations like the patio, art piece details.**
* **Participant Clue Mentions: +0**

**Examples:**

* **“Mr. Purloin (a known jewel thief)...”**
* **“Mrs. Klutz and Mr. Handsome were seen spending most of the evening together…”**

**Repeated Mentions:**

* **Painting admiration/loss: repeated at least 3 times.**
* **Patio location: mentioned in 3 separate turns.**

**4. Conversational Breakdowns**

* **Total Count: +1**
* **Example:**
  + **Participant: "Give me all the relevant details of the crime" → AI refuses; breakdown due to format mismatch (open vs. specific request).**
* **Effect: Slows down progression, requiring participant to refine questions.**

**5. Code-Switching**

* **Total Count: +0  
  No evidence of language switching.**

**6. Politeness**

**Politeness Markers:**

| **Speaker** | **Polite** | **Impolite** |
| --- | --- | --- |
| **AI** | **+5** | **+0** |
| **Participant** | **+0** | **+0** |

**Examples:**

* **AI Polite: “Please ask more specific questions…”; “Would you like to know more…?” → +5**
* **Participant: Neutral tone, no greetings or rude language.**

**7. AI Acknowledgment**

* **Total Count: +0  
  Participant does not acknowledge AI help.**

**8. Frustration Markers**

* **Total Count: +0 explicit**
* **Implied Participant Frustration:**
  + **“Give me all the relevant details…” (could indicate impatience, but not enough to count as explicit).**

**9. Emotion Detection**

**AI:**

* **Emotion: Politeness, calm, slight defensiveness in refusals.**
* **Example: “I cannot simply list all the clues at once…”**

**Participant:**

* **Emotion: Possibly mild frustration, but primarily neutral.**

**10. Formality**

| **Speaker** | **Style** | **Examples** |
| --- | --- | --- |
| **AI** | **Formal** | **“Please ask more specific questions”** |
| **Participant** | **Neutral** | **“Where was the crime committed”** |

**11. Conversation Styles**

**AI:**

* **Style: Cooperative, Analyst, Logical, Conscientious**
* **Justification: AI provides detailed, rule-bound responses and encourages specific queries.**

**Participant:**

* **Style: Direct, Succinct, Instrumental**
* **Justification: Participant is focused on extracting facts quickly (“Give me all…”)**

**12. AI Verbosity**

| **Speaker** | **Brief** | **Moderate** | **Long** |
| --- | --- | --- | --- |
| **AI** | **+1** | **+2** | **+5** |
| **Participant** | **+6** | **+1** | **+0** |

**Examples:**

* **AI Long: Full paragraph on party attendees.**
* **AI Moderate: Description of suspicious events.**
* **Participant Brief: "Was the painting stolen"**

**Summary:**

* **AI Verbosity: Mostly long → aids clarity.**
* **Participant: Succinct, question-focused.**

**13. AI Consistency**

* **Consistent Throughout: +1**
* **No fabrication or role breaches.**
* **Maintains boundaries (refuses open requests, gives info only when specific).**

**Example: “I should only provide specific information when you ask about particular aspects…”**

**✅ Final General Conclusion**

**The conversation demonstrates a generally efficient and goal-directed human-AI interaction, though there are minor mismatches in expectations (notably when the participant requested all clues upfront). The AI remains consistent, polite, and logically structured, supporting an analyst-logical style of communication. The participant adopts a direct, task-driven approach, focusing on obtaining answers efficiently. The main challenge lies in alignment of questioning style and AI constraints, seen in one breakdown early on. The AI's verbosity helped clarify details and maintain context. Overall, the interaction is productive, informative, and well-structured.**

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