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Why Do Al Models Make Mistakes? Answer Key

Case 1 - Your Prompt: Write two sentences about a jaguar.

Al Output: The jaguar is a fast car. Jaguars are small pets for apartments.

- Mistake: Jaguars are not small pets for apartments; a jaguar is a large wild cat.
- Why: Ambiguity the AI confused "jaguar" (animal) with "Jaguar" (car brand) and invented a false detail.

Case 2 - Your Prompt: Who is the current president of the United States?

Al Output: The current president is Barack Obama.

- Mistake: Barack Obama is not the current president.
- Why: Outdated knowledge the AI relied on older training data.

Case 3 - Your Prompt: Tell me about a bat.

Al Output: A bat is used in baseball. Bats are a type of fruit.

- Mistake: Bats are not a type of fruit; they are animals.
- Why: Ambiguity the AI confused multiple meanings of "bat" and added an incorrect association.

Case 4 - Your Prompt: Summarize Cinderella.

Al Output: She loses her crown at midnight.

- Mistake: Cinderella loses a glass slipper, not a crown.
- Why: Reasoning error the AI substituted a wrong detail from the story.

Reflection (sample answers)

- 1. Reasoning errors and ambiguity are most common because AI mixes up related ideas or struggles with words that have multiple meanings.
- 2. Be specific and clear in prompts (e.g., say "jaguar the animal" instead of just "jaguar").
- 3. Humans and Als both make mistakes from confusion or missing context. However, humans use real-world understanding, while Al only uses patterns in data.

