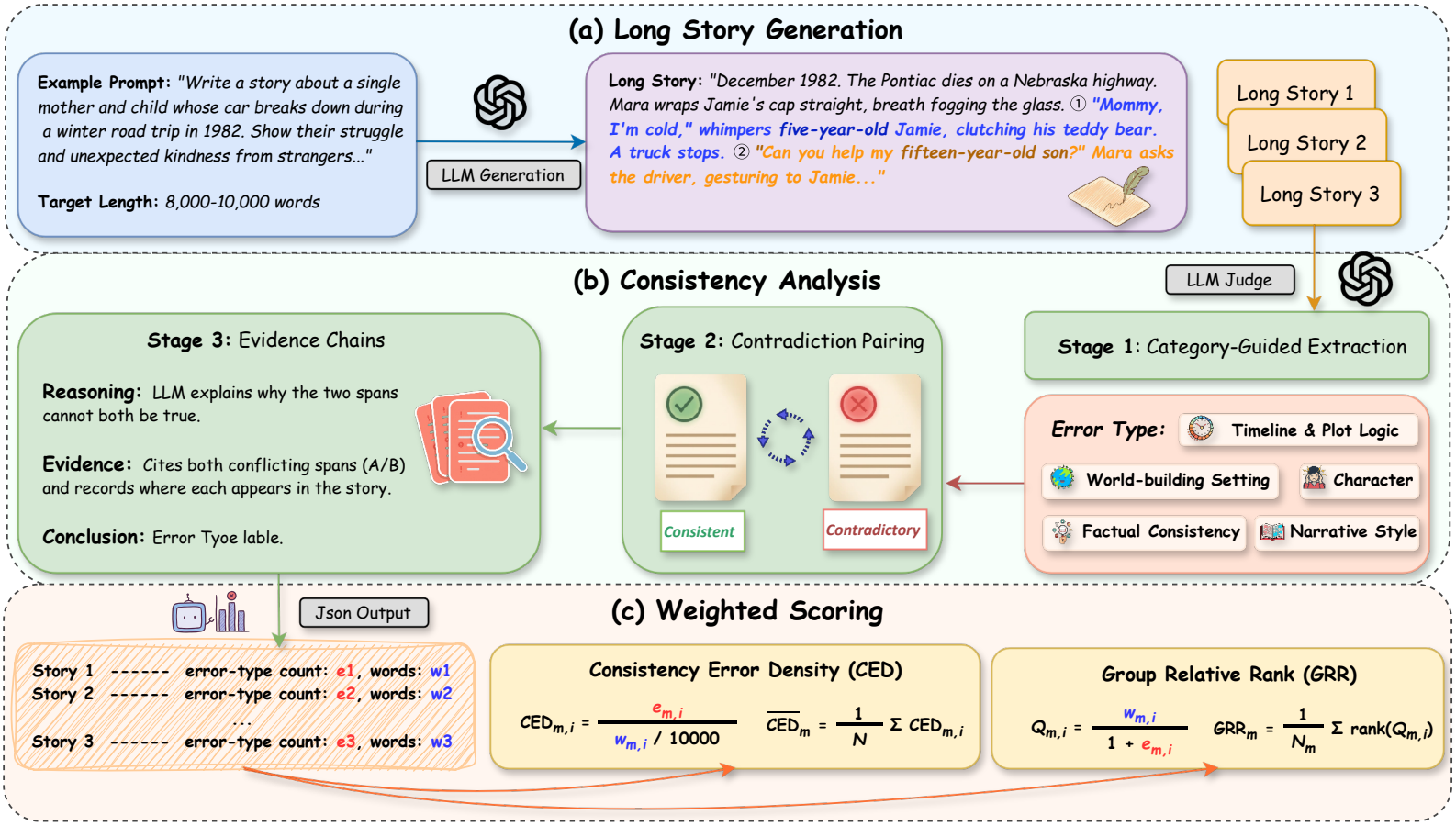
(a) Long Story Generation
Example Prompt: "Write a story about a single mother and child whose car breaks down during a winter road trip in 1982. Show their struggle and unexpected kindness from strangers..."
Target Length: 8,000-10,000 words
LLM Generation
Long Story: "December 1982. The Pontiac dies on a Nebraska highway. Mara wraps Jamie's cap straight, breath fogging the glass. ① "Mommy, I'm cold," whimpers five-year-old Jamie, clutching his teddy bear. A truck stops. ② "Can you help my fifteen-year-old son?" Mara asks the driver, gesturing to Jamie..."
Long Story 1
Long Story 2
Long Story 3
LLM Judge
(b) Consistency Analysis
Stage 1: Category-Guided Extraction
Error Type:
Timeline & Plot Logic
World-building Setting
Character
Factual Consistency
Narrative Style
Stage 2: Contradiction Pairing
Consistent
Contradictory
Stage 3: Evidence Chains
Reasoning: LLM explains why the two spans cannot both be true.
Evidence: Cites both conflicting spans (A/B) and records where each appears in the story.
Conclusion: Error Tyoe lable.
Json Output
(c) Weighted Scoring
Story 1 ------ error-type count: e1, words: w1
Story 2 ------ error-type count: e2, words: w2
...
Story 3 ------ error-type count: e3, words: w3
Consistency Error Density (CED)
$CED_{m,i} = \frac{e_{m,i}}{w_{m,i} / 10000}$
$\overline{CED}_m = \frac{1}{N} \Sigma CED_{m,i}$
Group Relative Rank (GRR)
$Q_{m,i} = \frac{w_{m,i}}{1 + e_{m,i}}$
$GRR_m = \frac{1}{N_m} \Sigma rank(Q_{m,i})$