

clnn88@SimpleText 2026 - Task 1: Llama 3-based Simplification for Biomedical Text

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Idea + Approach

- Taking part in both Task 1.1 (sentences) and Task 1.2 (documents)
- RQ: How does prompt formulation affect evaluation scores?
- Zero-shot prompting with Meta-Llama-3-8B-Instruct
- 3 prompts per task
- All:
 - Persona definition
 - Meaning preservation
 - No fluff text

Wording differences - “No fluff text”

- P1: Respond ONLY with the simplified sentence in English, without any introductory or concluding remarks.
- P2: Return ONLY the simplified English sentence.
- P3: Output ONLY the final simplified English sentence.

Prompt Components - Task 1.1 (Sentences)

	P1	P2	P3
Replace complex jargon		X	X
No added/omitted information		X	
Target audience	X	X	
Break down complex sentence structure			X

Prompt Components - Task 1.2 (Documents)

	P4	P5	P6
Replace complex jargon	X		
No added/omitted information	X	X	X
Target audience	X		X
Break down complex sentence structure	X		
Keep logical order and structure	X		
Coherence	X	X	X
Handle whole document at once			X

Results - General

- SARI: 44.93 for sentences (P3) , 43.8 for documents (P5)
- Low BLEU

LLMs rephrase, BLEU considers n-grams

- Compression ratio: 0.79 for sentences (P3), 0.35 for documents (P6)

	P1	P2	P3	P4	P5	P6
Handle whole document at once						X
Break down complex sentence structure			X	X		

Results - FKGL

FKGL based on sentence length, word and syllable count

- 10.41 for sentences (P3), 10.62 for documents (P4)
- P2 targets high school readers but achieves FKGL of 14.53
- P3 best FKGL

	P1	P2	P3	P4	P5	P6
Target audience	x	x		x		x
Break down complex sentence structure			x	x		

Limitations + Conclusion

- One model, six prompts
- Prompt wording and instruction components not changed in isolation
- SARI very similar, other signals more diverse
- Exact formulation of prompt components could be influential
- Sentence runs: Structural simplification aligned better with lower FKGL than explicit definition of target audience

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