# **RevalSum: Refining LLM Summarization via Fine-grained Feedback**

**Anonymous ACL submission** 

#### Abstract

Large Language Models(LLMs) have demonstrated remarkable capabilities in abstractive summarization tasks. However, traditional oneshot generation approaches and self-iterative LLM methods often suffer from issues such as overconfidence, inconsistent feedback, and 800 overcorrection. To address these limitations, we propose RevalSum-a novel LLM-based iterative summarization framework driven by objective evaluators. RevalSum integrates an external multi-dimensional evaluator that provides fine-grained revision suggestions after each generation step, guiding the LLM to perform targeted refinements. This approach effectively overcomes the key shortcomings of existing self-refinement methods and achieves strong performance across multiple evaluation metrics on the CNN/DM and XSum datasets.

#### 1 Introduction

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Text summarization, as a core task in natural language processing, plays a critical role in real-world applications such as news aggregation and information retrieval. In recent years,LLMs have become a driving force behind abstractive summarization due to their remarkable generative capabilities. A wealth of studies has demonstrated that, with carefully designed prompts and fine-tuning, LLMs can produce high-quality summaries that better align with human preferences(Ouyang et al., 2022; Zhang et al., 2024), yielding significant improvements in readability and semantic coverage.

However, traditional one-shot generation methods often suffer from semantic drift and the omission of key information(Goyal et al., 2022; Chhabra et al., 2024), which limits their practical utility. To address these challenges, researchers have proposed iterative strategies based on LLM self-initialization, self-feedback, and self-optimization, such as Self-Refine(Madaan et al., 2023), Reflexion(Shinn et al., 2023), and SummIt(Zhang et al., 2023). These approaches aim to progressively refine generated outputs through multiple rounds of internal feedback.Nonetheless, such self-iterative frameworks still face three major challenges: (1) overconfidence, where the model stubbornly adheres to its own outputs (2) feedback inconsistency, which introduces considerable variability across iterations (3) overcorrection, where the model excessively adjusts based on its internal evaluations, potentially diverging from human preferences. Moreover, existing research indicates that reliable external evaluators can substantially enhance stability and overall performance when guiding LLM selfcorrection(Kamoi et al., 2024).

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To overcome these limitations, we propose Reval-Sum, a novel LLM-based iterative summarization framework driven by objective evaluator feedback. The key idea of RevalSum is to incorporate an external, multi-dimensional evaluator after each generation step, providing fine-grained corrective suggestions to more effectively guide the LLM's targeted improvements. This paper contributes in three fold:

- We propose RevalSum, a novel iterative summarization framework that incorporates an independent automatic evaluator to provide external feedback for LLMs. This approach overcomes the limitations of existing selfrefinement methods and demonstrates superior performance across multiple evaluation metrics.
- To the best of our knowledge, this is the first work that integrates fine-grained feedback from an objective evaluator into the iterative generation process of LLM-based summarization.
- Extensive evaluations across diverse datasets and models demonstrate the effectiveness of the proposed framework.

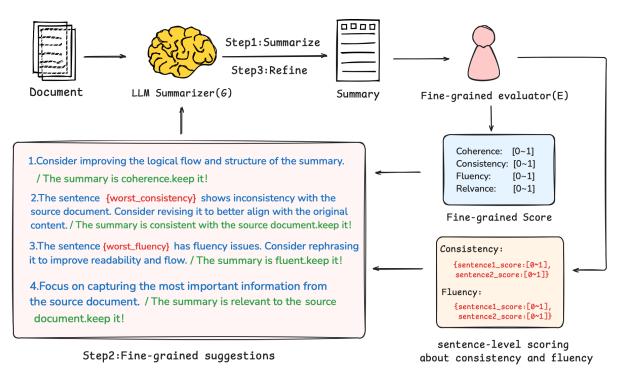


Figure 1: The framework of RevalSum

#### 2 Related Work

LLM-based for Summarization In recent years, the advanced zero-shot paradigm of LLMs has substantially reduced the reliance of text generation tasks on standard datasets (Brown et al., 2020; Chowdhery et al., 2023; Thoppilan et al., 2022). Numerous studies have leveraged LLMs for data augmentation (Wang et al., 2021; Liu et al., 2024). Among these, Madaan et al. (2023) innovatively introduced the self-refine paradigm, wherein a single LLM iteratively refines its outputs, significantly improving performance across various downstream tasks. Building upon this foundation, Zhang et al. (2023) further extended the self-refine approach, systematically validating its effectiveness and applicability specifically in abstractive summarization tasks.

# 3 Method

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# 3.1 Overview of RevalSum

Given a source document D, RevalSum first generates an initial summary using a generator  $\mathcal{G}$ . Then, an external evaluator  $\mathcal{E}$  scores the summary from multiple dimensions, and we design fine-grained feedback based on the score. Guided by this feedback,  $\mathcal{G}$  iteratively optimizes the summary until a pre-defined stopping criterion is met. RevalSum consists of three core components: a large language model  $\mathcal{G}$ , a multi-dimensional automatic evaluator  $\mathcal{E}$ , and two hints for initial generation and iterative optimization. The overall framework is shown in Figure 1 and described in detail in the algorithm 1.

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**Summarize via LLMs** In the RevalSum framework, the generator  $\mathcal{G}$  is a large language model (LLM) responsible for generating abstractive summaries. Given a source document D,  $\mathcal{G}$  produces the initial summary in response to a specially designed prompt  $P_{\text{init}}$ , which incorporates the stylistic and content-specific characteristics of the target dataset. In the subsequent iterative process,  $\mathcal{G}$  is also used to refine the summary based on feedback.All generations are performed in a zero-shot or few-shot prompting manner.

**Fine-grained Feedback via Evaluator** In the RevalSum framework, the external evaluator  $\mathcal{E}$  is responsible for assessing the quality of the generated summary and providing objective feedback to guide subsequent iterative optimization. We use UniEval(Zhong et al., 2022) as the implementation of  $\mathcal{E}$ , which quantifies the overall quality of the summary through a multi-dimensional scoring mechanism. Given the source document \$D\$ and the current summary  $S^{(t)}, \mathcal{E}$  calculates the

score  $Q^{(t)} = E(D, S^{(t)})$ , and evaluates the performance of the summary in terms of consistency, relevance, fluency, and coherence.

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To further improve the summary quality,RevalSum constructs fine-grained, targeted revision suggestions based on the scoring results. In the dimensions of factual consistency and fluency, we employ sentence-level scoring to help the LLM precisely identify problematic sentences and provide directions for improvement. Our fine-grained feedback prompts are set as follows:

• **Coherence**:"Consider improving the logical flow and structure of the summary." or "The summary is coherent.Keep it"

• **Consistency**:"<The sentence> shows inconsistency with the source document. Consider revising it to better align with the original content." or "The summary is relevant to the source document.Keep it"

• Fluency:"<The sentence> has fluency issues.Consider rephrasing it to improve readability and flow." or "The summary is fluent.Keep it"

• **Relevance**:"Focus on capturing the most important information from the source document." or "The summary is relevant to the source document.Keep it"

**Feedback-Guided Iterative Refinement** After obtaining the score given by the external evaluator  $\mathcal{E}$  and the prompt it constructs, the generator  $\mathcal{G}$  will modify the summary item by item based on the suggestions, generating the new summary  $S^{(t)} = \mathcal{G}(D, S^{(t-1)}, P_{\text{refine}}^{(t)})$ . The complete prompt for RevalSum is shown in Appendix B.

#### 3.2 Loop strategy and Stop criteria

To address overconfidence, error accumulation, and 169 over-correction in LLM self-iteration, RevalSum 170 adopts two termination strategies: (1) stopping af-171 ter a maximum of T iterations to ensure efficiency, and (2) early stopping when the evaluator score 173  $Q^{(t)} \geq \tau$ , indicating satisfactory quality. To pre-174 vent excessive revisions, RevalSum maintains the 175 best summary  $S^*$  and its highest score  $Q^*$  across 176 iterations, updating them whenever  $Q^{(t)} > Q^*$ . 177

Algorithm 1 RevalSum: Iterative Summarization with Evaluation Feedback

**Require:** Document D, Summarizer / Optimizer  $\mathcal{G}$ , Evaluator  $\mathcal{E}$ , Max iterations T, Threshold  $\tau$ ,  $Q^{(t)}$ : evaluation scores from  $\mathcal{E}$  at step t, Two types of prompts  $\mathcal{P}_{\text{init}}, \mathcal{P}_{\text{refine}}$ 

**Ensure:** Best summary  $S^*$ 

	$S^{(0)} \leftarrow \mathcal{G}(\mathcal{P}_{\text{init}} \parallel D)$
2:	$Q^{(0)} \leftarrow \mathcal{E}(D, S^{(0)})$
3:	$S^* \leftarrow S^{(0)}, Q^* \leftarrow Q^{(0)}$
4:	for $t = 1$ to $T$ do
5:	if $Q^*.score \geq \tau$ then
6:	break
7:	end if
8:	$\mathcal{P}_{\text{refine}}^{(t)} \leftarrow \mathcal{Q}^{(t-1)}$
9:	$S^{(t)} \leftarrow \mathcal{G}(\mathcal{P}_{refine}^{(t)}  \   D  \   S^{(t-1)})$
10:	$Q^{(t)} \leftarrow \mathcal{E}(D, S^{(t)})$
11:	if $Q^{(t)}.score > Q^*.score$ then
12:	$S^* \leftarrow S^{(t)}, Q^* \leftarrow Q^{(t)}$
13:	end if
14:	end for
15:	return S*

# 4 Experiment

# 4.1 Experiment Setting

**Datasets** We evaluated the proposed framework in this paper on two mainstream abstractive summarization datasets: CNN/DM(Hermann et al., 2015) and XSum(Narayan et al., 2018). Specifically, we randomly sampled 1000 instances from the test set of each dataset as experimental data, and we fixed the random seed to 101 to ensure the reproducibility of the experimental results. 178

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**Models** To provide a more comprehensive evaluation of the effectiveness of the proposed method, we selected both open-source and closed-source models for experimental validation. For the opensource model, we employed the currently prevalent LLaMA3.1-8B-Instruct <sup>1</sup>. For the closedsource model, we utilized the widely adopted ChatGPT(gpt-4o-0513)<sup>2</sup>. Furthermore, we set the generation temperature to 0 to ensure the determinacy and stability of the generated results.

**Baselines** We compare our proposed RevalSum method with SummIt(Zhang et al., 2023), a representative self-iterative summarization approach

<sup>&</sup>lt;sup>1</sup>https://huggingface.co/meta-llama/Llama-3.1-8B-Instruct

<sup>&</sup>lt;sup>2</sup>https://platform.openai.com/docs/models/gpt-4o

	CNN/DM						XSum									
Model	UniEval			ROUGE			G-Eval	UniEval			ROUGE			G-Eval		
	Coh	Con	Flu	Rel	R-1	R-2	R-L	score	Coh	Con	Flu	Rel	R-1	R-2	R-L	score
						Zero	o-shot set	ting								
Pegasus (zero-shot)	0.7771	0.8937	0.8779	0.7594	34.75	13.58	26.03	3.36	0.9399	0.9457	0.7743	0.6684	18.78	2.376	12.14	2.72
BART (zero-shot)	0.8825	0.9249	0.8668	0.8456	35.72	15.51	29.30	3.81	0.9514	0.9485	0.8030	0.7483	19.85	2.73	13.01	2.99
T5 (zero-shot)	0.7772	0.8768	0.8819	0.7480	39.03	17.55	31.82	3.61	0.8308	0.8391	0.8950	0.8604	30.38	11.04	23.76	2.75
LLaMA3.1-8B (SummIt)	0.9417	0.8916	0.9459	0.9258	38.68	15.14	24.80	4.53	0.9364	0.9212	0.9434	0.9050	25.01	6.72	18.08	4.06
LLaMA3.1-8B (RevalSum)	0.9592↑	0.9132↑	0.9523↑	$0.9292\uparrow$	41.46↑	$16.78\uparrow$	$27.37\uparrow$	4.66↑	0.9409↑	0.9203	0.9497↑	0.9157↑	27.18↑	6.67	$20.00\uparrow$	4.21
ChatGPT (SummIt)	0.8609	0.7797	0.9267	0.9080	36.08	12.12	22.34	4.81	0.8942	0.8828	0.9107	0.8750	26.02	6.63	18.91	4.62
ChatGPT (RevalSum)	0.9293↑	$0.8482\uparrow$	0.9430↑	$0.9278\uparrow$	36.48↑	$12.21\uparrow$	$22.74\uparrow$	4.88↑	0.9364↑	0.9312↑	0.9503↑	0.9145↑	$27.04\uparrow$	6.97↑	19.61↑	4.65↑
Few-shot setting																
LLaMA3.1-8B (SummIt)	0.9480	0.8978	0.9470	0.9271	39.21	15.43	25.11	4.51	0.8215	0.8958	0.8824	0.7674	29.78	8.95	22.18	3.69
LLaMA3.1-8B (RevalSum)	$0.9519 \uparrow$	0.9257↑	0.9513↑	<b>0.9311</b> ↑	42.86↑	18.57↑	$28.88\uparrow$	4.67↑	0.9554↑	0.9429↑	<b>0.9547</b> ↑	0.9265↑	29.45	9.38	22.25	4.39↑
ChatGPT (SummIt)	0.8921	0.8283	0.9300	0.9120	36.51	12.37	23.01	4.83	0.9114	0.9020	0.9265	0.8898	25.96	6.61	18.72	4.64
ChatGPT (RevalSum)	$0.9267\uparrow$	$0.8548\uparrow$	0.9432↑	$0.9265\uparrow$	36.70↑	12.36	23.13↑	4.88↑	0.9461↑	0.9362↑	0.9534↑	0.9193↑	29.28↑	8.85↑	$21.82\uparrow$	4.65↑

Table 1: Evaluation results on CNN/DM and XSum datasets using UniEval, ROUGE, and G-Eval under zero-shot and few-shot settings.<sup>↑</sup> indicates improvement over the corresponding baseline.Values in blue indicate the best performance for each corresponding metric

based on large language models (LLMs). In addition, to comprehensively evaluate the effectiveness of our method in the zero-shot scenario, we select three widely-used pretrained summarization models as baselines including Pegasus(Zhang et al., 2020), BART(Lewis et al., 2020), and T5(Raffel et al., 2020) for comparison.

> Automatic Evaluation We use three automatic metrics to evaluate summary quality: (1) ROUGE(Lin, 2004), a lexical-overlap-based metric for reference similarity; (2) UniEval (Zhong et al., 2022), a BERT-based metric assessing coherence, consistency, fluency, and relevance; and (3) G-Eval(Liu et al., 2023), a high-performing LLMbased evaluation method.

#### 4.2 Results and Analysis

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	<b>R-1</b>	<b>R-2</b>	R-L	<b>G-Eval</b>
RevalSum	42.86	18.57	28.88	4.67
-w/o coh	40.68	16.51	27.48	4.66
-w/o con	40.62	16.69	28.44	4.54
-w/o flu	40.12	16.33	27.46	4.58
-w/o rel	40.92	16.65	27.39	4.60

Table 2: Ablation study results for RevalSum

The effectiveness of fine-grained feedback
Table 1 reports RevalSum's performance on
CNN/DM and XSum. Compared to the selfiterative baseline SummIt(Zhang et al., 2023),
RevalSum consistently achieves better results
across UniEval, ROUGE, and G-Eval under both
zero-shot and few-shot settings, with improvements
indicated by ↑.

On CNN/DM, RevalSum surpasses SummIt in all UniEval dimensions, ROUGE scores, and G-Eval, validating the effectiveness of its fine-grained feedback. Similar gains are observed on XSum, especially in consistency and G-Eval. While T5 slightly outperforms RevalSum in ROUGE on XSum, this can be reasonably attributed to the highly abstractive nature of XSum reference summaries, which often include information not explicitly present in the source text—making wordoverlap-based metrics less reliable in this context. 225

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Ablation Studies To evaluate each module's impact, we conducted an ablation study on finegrained feedback using the CNN/DM dataset (Table 2). Results show that each dimension improves RevalSum's performance: the fluency module boosts ROUGE most, while the factual consistency module contributes most to G-Eval. This confirms that sentence-level targeted feedback enhances both lexical and factual evaluation metrics.

# 5 Conclusion

We propose a novel framework, RevalSum, which leverages an external fine-grained feedback module to guide large language models through iterative refinement. Experimental results demonstrate that fine-grained prompts effectively enhance the model's self-correction capability in summarization tasks, thereby improving summary quality.

#### Limitations

Our current work primarily relies on UniEval as an external evaluator to validate the effectiveness of the RevalSum framework. While UniEval can provide granular scores and help locate sentences

needing revision, as a black-box evaluator, it can-258 not offer human-understandable evidence for its 259 ratings. This, to some extent, limits the precision of the optimization direction for LLMs. For instance, when evaluating relevance, if the evaluator could not only provide a low score but also point out "the summary is missing key information about 264 <content>," it would offer more instructive revision advice to the model. Therefore, constructing a truly unsupervised external evaluator capable of provid-267 ing both fine-grained scores and interpretable reasoning for these scores will be a crucial direction 269 for our future research. We believe that exploring more insightful external feedback mechanisms is 271 a key pathway to further enhance the performance and controllability of text generation models.

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A Ethics and Risks	388
A.1 Ethics	389
<b>Data Privacy and Source</b> All datasets utilized in this study—CNN/DailyMail <sup>3</sup> and XSum <sup>4</sup> are publicly	390
accessible, ensuring transparency in data sourcing and minimizing ethical concerns regarding data usage.	391
A.2 Risks	392
<b>Over-reliance on the Quality of Automatic Evaluator Feedback</b> The core mechanism of RevalSum	393
involves guiding the large language model (LLM) to iteratively generate summaries based on fine-grained	394
feedback from an external evaluator. If the evaluator itself is biased, unstable, or lacks sufficient capability	395
for certain types of texts, it may mislead the model into optimizing in the wrong direction.	396
B The full prompt template of RevalSum	397

<sup>&</sup>lt;sup>3</sup>https://github.com/abisee/cnn-dailymail <sup>4</sup>https://github.com/EdinburghNLP/XSum

Step	Prompt Template of RevalSum					
Init	You are a top expert in the field of summary generation. Now you need to complete the text summary generation task in output format.					
	Before generating a summary, please think about the following points:					
	1) <b>Coherence</b> : The summary should have a logical flow and be easily under- stood as a cohesive piece.					
	2) <b>Consistency</b> : Ensure factual consistency, with no contradictions in the summary compared to the original content.					
	3) <b>Fluency</b> : The summary should be grammatically correct, well-structured, and natural to read.					
	4) <b>Relevance</b> : The summary should cover the most important points from the original text without adding irrelevant information.					
	5) <b>Overall Quality</b> : Aim for a well-rounded summary that reflects the original content accurately and concisely.					
	Document: {doc}					
	Please provide **only** the summary, formatted EXACTLY as follows: <summary></summary>					
	Your generated summary text here					
Fine-grained suggestions	<b>Coherence</b> : "Consider improving the logical flow and structure of the summary." or <i>"The summary is coherent.keep it"</i>					
	<b>Consistency</b> : "{The sentence} shows inconsistency with the source document. Consider revising it to better align with the original content." or <i>"The summary is relevant to the source document.keep it"</i>					
	<b>Fluency</b> : "{The sentence} has fluency issues.Consider rephrasing it to improve readability and flow." or <i>"The summary is fluent.keep it"</i>					
	<b>Relevance</b> : "Focus on capturing the most important information from the source document." or <i>"The summary is relevant to the source document.keep it"</i>					
Refine	You are an AI model for generating summaries, and your task is to iteratively improve the provided summary based on the given feedback.					
	Current document to summarize: {doc}					
	Current summary (to be improved):{summary}					
	Current suggestions for improvement: {suggestion}					
	Please refer to the detailed suggestions for improvement to refine this summary.					
	Please make sure all suggestions are modified. Now, please provide only the refined summary formatted EXACTLY as follows:					
	<refine summary=""></refine>					
	Your refined summary text here					

Table 3: The full prompt template of RevalSum