

Query Focused Abstractive Summarization Analysis on CNN-Daily Mail Dataset

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1 Rouge Scores

1.1 Generic Summary

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1 ROUGE-1 Average_R: 0.35180 (95%-conf.int. 0.34780 - 0.35552)  
1 ROUGE-1 Average_P: 0.24725 (95%-conf.int. 0.24428 - 0.25013)  
1 ROUGE-1 Average_F: 0.26934 (95%-conf.int. 0.26675 - 0.27199)  
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1 ROUGE-2 Average_R: 0.15029 (95%-conf.int. 0.14717 - 0.15355)  
1 ROUGE-2 Average_P: 0.10382 (95%-conf.int. 0.10164 - 0.10602)  
1 ROUGE-2 Average_F: 0.11308 (95%-conf.int. 0.11081 - 0.11549)  
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1 ROUGE-L Average_R: 0.32161 (95%-conf.int. 0.31776 - 0.32524)  
1 ROUGE-L Average_P: 0.22637 (95%-conf.int. 0.22350 - 0.22908)  
1 ROUGE-L Average_F: 0.24640 (95%-conf.int. 0.24378 - 0.24901)
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1.2 Query Focused Summary

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1 ROUGE-1 Average_R: 0.53736 (95%-conf.int. 0.53352 - 0.54095)  
1 ROUGE-1 Average_P: 0.19016 (95%-conf.int. 0.18808 - 0.19204)  
1 ROUGE-1 Average_F: 0.26501 (95%-conf.int. 0.26263 - 0.26709)  
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1 ROUGE-2 Average_R: 0.24484 (95%-conf.int. 0.24088 - 0.24854)  
1 ROUGE-2 Average_P: 0.08259 (95%-conf.int. 0.08123 - 0.08393)  
1 ROUGE-2 Average_F: 0.11601 (95%-conf.int. 0.11427 - 0.11774)  
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1 ROUGE-L Average_R: 0.50013 (95%-conf.int. 0.49621 - 0.50366)  
1 ROUGE-L Average_P: 0.17671 (95%-conf.int. 0.17469 - 0.17851)  
1 ROUGE-L Average_F: 0.24634 (95%-conf.int. 0.24415 - 0.24835)
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2 Meteor Scores

2.1 Generic Summary

Stage	Test Matches			Reference Matches		
	Content	Function	Total	Content	Function	Total
1	47662	56714	104376	47662	56714	104376
2	707	22	729	709	20	729
3	2437	701	3138	2522	616	3138
4	4392	5055	9447	4436	4687	9123
Total	55198	62492	117690	55329	62037	117366

Test words: 395448
Reference words: 292277
Chunks: 74590
Precision: 0.25792009148063005
Recall: 0.34729165042860527
f1: 0.29600712625446174
fMean: 0.3301325782108259
Fragmentation penalty: 0.5478467664588851

Final score: 0.14927051273528996

2.2 Query Focused Summary

Stage	Test Matches			Reference Matches		
	Content	Function	Total	Content	Function	Total
1	74074	80225	154299	74074	80225	154299
2	1430	58	1488	1435	53	1488
3	3400	1036	4436	3504	932	4436
4	6311	7642	13953	6543	6210	12753
Total	85215	88961	174176	85556	87420	172976

Test words: 799038
Reference words: 292277
Chunks: 104734
Precision: 0.19391897927234603
Recall: 0.5244754377118569
f1: 0.2831473606419651
fMean: 0.41767851762424385
Fragmentation penalty: 0.5423390215732409

Final score: 0.1911551590437498