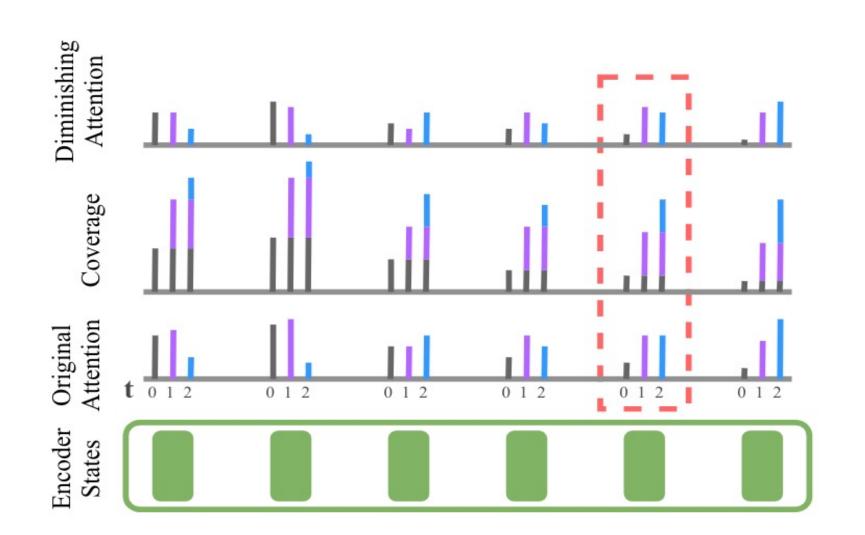
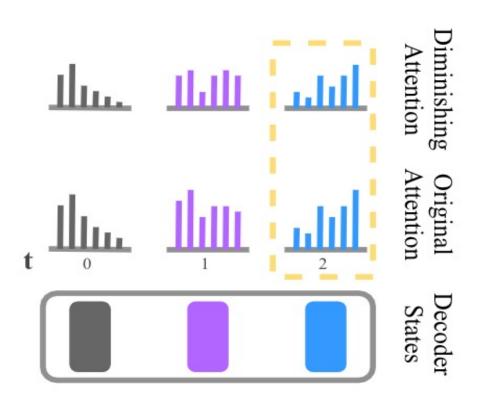
Advancing Neural Text Generation

Architecture-Oriented and Data-Oriented Methods

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Project Objectives:

Bearing in mind the objective of improving the current neural text generation systems, we systematically surveyed the current systems and proposed two methods:

- An attention module which offers an architecturally simple and empirically effective method to improve the coverage of neural text generation.
- A general method for fine-tuning pretrained models for summarization in an unsupervised, dataset-specific manner and introduce data augmentation techniques for text summarization.

Project Results:

- We achieve state-of-the-art results on multiple text generation tasks.
- WikiTransfer achieves state-ofthe-art zero-shot results on CNNDM.

The improvements from our model

Target Dataset	WikiTransfer			Other Transfer			
CNNDM	39.11	17.25	35.73	36.81	14.18	32.62	(Reddit)
XSum	31.85	10.44	23.75	24.04	6.43	18.99	(Reddit)
Reddit	21.47	4.10	17.62	21.37	4.14	17.76	(CNNDM)
BigPatent	35.58	10.91	31.53	33.57	9.34	25.76	(CNNDM)