

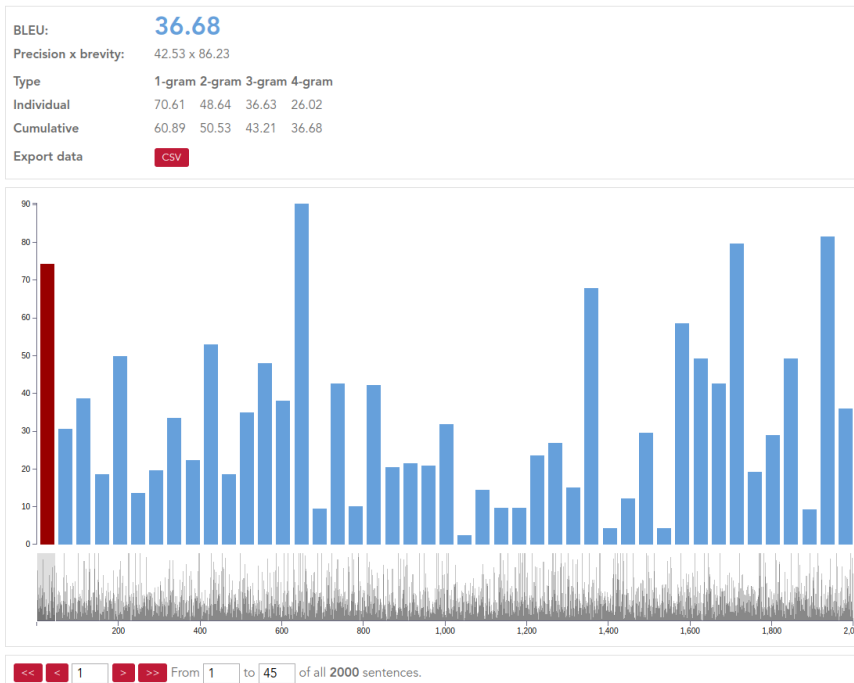
MT Assignment

Submitted by :
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Date: 1/05/23

	SMT		NMT (transformer based)	
Training Size	34K		47K	
Test Size	500		2000	
Average Sentence Length	12-13 (Assamese-English)		25	
	S - Assamese T - English	S - English T - Assamese	S - Assamese T - English	S - English T - Assamese
BLEU	2.45	1.43	36.38	34.45
METEOR	0.19	0.11	0.667	0.544
TER	0.87	0.91	0.46	0.49

Transformers Results

Sentence 13	BLEU	Length ratio	Text
Human	100.00	1.00	<u>_</u> In <u>_</u> its <u>_</u> fight <u>_</u> against <u>_</u> COVID - 1 9 <u>_</u> since <u>_</u> January <u>_</u> 2 0 2 0 , <u>_</u> India <u>_</u> has <u>_</u> crossed <u>_</u> another <u>_</u> peak .
Machine	47.93	0.71	<u>_</u> India <u>_</u> has <u>_</u> achieved <u>_</u> another <u>_</u> milestone <u>_</u> in <u>_</u> its <u>_</u> fight <u>_</u> against <u>_</u> COVID - 1 9 .



Dataset Link : <https://object.pouta.csc.fi/OPUS-Anuvaad/v1/moses/as-en.txt.zip>

Most frequent Word:

Unfiltered:

Assamese : আৰু : 26667

English : 'the' : 48156,

Filtered:

Assamese : 'আৰু' : 11346

English : 'the' : 25854,