

Comparison with bae_garg_2019

Bert-base-uncased-yelp-polarity model:

<u>Our Attack</u>			<u>bae_garg</u>		
Attack Results			Attack Results		
Number of successful attacks:	21		Number of successful attacks:	11	
Number of failed attacks:	4		Number of failed attacks:	14	
Number of skipped attacks:	0		Number of skipped attacks:	0	
Original accuracy:	100.0%		Original accuracy:	100.0%	
Accuracy under attack:	16.0%		Accuracy under attack:	56.0%	
Attack success rate:	84.0%		Attack success rate:	44.0%	
Average perturbed word %:	12.51%		Average perturbed word %:	6.44%	
Average num. words per input:	133.36		Average num. words per input:	133.36	
Avg num queries:	238.84		Avg num queries:	314.88	
textattack : Attack time: 252.68779397010803s			textattack : Attack time: 764.2062220573425s		

Bert-base-uncased-imdb model:

<u>Our Attack</u>			<u>bae_garg</u>		
Attack Results			Attack Results		
Number of successful attacks:	21		Number of successful attacks:	12	
Number of failed attacks:	4		Number of failed attacks:	13	
Number of skipped attacks:	2		Number of skipped attacks:	2	
Original accuracy:	92.59%		Original accuracy:	92.59%	
Accuracy under attack:	14.81%		Accuracy under attack:	48.15%	
Attack success rate:	84.0%		Attack success rate:	48.0%	
Average perturbed word %:	5.29%		Average perturbed word %:	2.97%	
Average num. words per input:	248.96		Average num. words per input:	248.96	
Avg num queries:	419.72		Avg num queries:	561.52	
textattack : Attack time: 268.29629945755005s			textattack : Attack time: 1153.5890488624573s		

Albert-Base-v2-yelp-polarity model:

Our Attack

Attack Results	
Number of successful attacks:	17
Number of failed attacks:	8
Number of skipped attacks:	0
Original accuracy:	100.0%
Accuracy under attack:	32.0%
Attack success rate:	68.0%
Average perturbed word %:	8.19%
Average num. words per input:	133.36
Avg num queries:	242.28

textattack: Attack time: 146.80171513557434s

bae_garg

Attack Results	
Number of successful attacks:	11
Number of failed attacks:	14
Number of skipped attacks:	0
Original accuracy:	100.0%
Accuracy under attack:	56.0%
Attack success rate:	44.0%
Average perturbed word %:	4.72%
Average num. words per input:	133.36
Avg num queries:	287.24

textattack: Attack time: 438.28860211372375s

Albert-Base-v2-imdb model:

Our Attack

Attack Results	
Number of successful attacks:	22
Number of failed attacks:	3
Number of skipped attacks:	3
Original accuracy:	89.29%
Accuracy under attack:	10.71%
Attack success rate:	88.0%
Average perturbed word %:	5.2%
Average num. words per input:	244.71
Avg num queries:	434.92

textattack: Attack time: 584.6124613285065s

bae_garg

Attack Results	
Number of successful attacks:	16
Number of failed attacks:	9
Number of skipped attacks:	3
Original accuracy:	89.29%
Accuracy under attack:	32.14%
Attack success rate:	64.0%
Average perturbed word %:	2.73%
Average num. words per input:	244.71
Avg num queries:	512.32

textattack: Attack time: 1051.5286781787872s