Comparison with BERT-ATTACK_2020

08 May 2021 00:10

AIBERT-base-v2-yelp-polarity:

Our attack

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Attack Results	į
Number of successful attacks: Number of failed attacks: Number of skipped attacks: Original accuracy: Accuracy under attack: Attack success rate: Average perturbed word %: Average num. words per input: Avg num queries:	14 1 4 78.95% 5.26% 93.33% 14.74% 17.63 34.6
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textattack: Attack time: 12.196712970733643s

BERT-base-uncased-yelp-polarity model

Our attack

textattack: Attack time: 12.028334379196167s

AlBERT-base-v2-IMDB model

Our attack

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Attack Results	<u>i</u>
Number of successful attacks: Number of failed attacks: Number of skipped attacks: Original accuracy: Accuracy under attack: Attack success rate: Average perturbed word %: Average num. words per input: Avg num queries:	15 0 1 93.75% 0.0% 100.0% 4.45% 221.56 352.0
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textattack: Attack time: 253.93306374549866s

BERT-Attack

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Number of successful attacks: Number of failed attacks: Number of skipped attacks: Original accuracy: Accuracy under attack: Attack success rate: Average perturbed word %: Average num. words per input: Avg num queries:	15 0 4 78.95% 0.0% 100.0% 12.52% 17.63 110.8

textattack: Attack time: 123.67272591590881s

BERT-Attack

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Attack Results	<u> </u>
Number of successful attacks: Number of failed attacks: Number of skipped attacks: Original accuracy: Accuracy under attack: Attack success rate: Average perturbed word %: Average num. words per input: Avg num queries:	15 0 4 78.95% 0.0% 100.0% 12.52% 17.63 110.8

textattack: Attack time: 121.3666181564331s

BERT-Attack

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Number of successful attacks: Number of failed attacks: Number of skipped attacks: Original accuracy: Accuracy under attack: Attack success rate: Average perturbed word %: Average num. words per input: Avg num queries:	15 0 1 1 93.75% 0.0% 100.0% 1.75% 221.56 347.27

textattack: Attack time: 404.62052512168884s

BERT-base-uncased-IMDB model

Our attack

Attack Results	
4	
Number of failed attacks: Number of skipped attacks: Original accuracy: Accuracy under attack: Attack success rate: Average perturbed word %:	14 1 1 93.75% 6.25% 93.33% 5.34% 221.56 365.33

textattack: Attack time: 238.02741146087646s

BERT-Attack

Number of failed attacks: 0 Number of skipped attacks: 1 Original accuracy: 9 Accuracy under attack: 0	
Average perturbed word %: 1 Average num. words per input: 2	5 0 03.75% 0.0% 0.00.0% 75% 221.56 447.27

textattack: Attack time: 420.75441241264343s