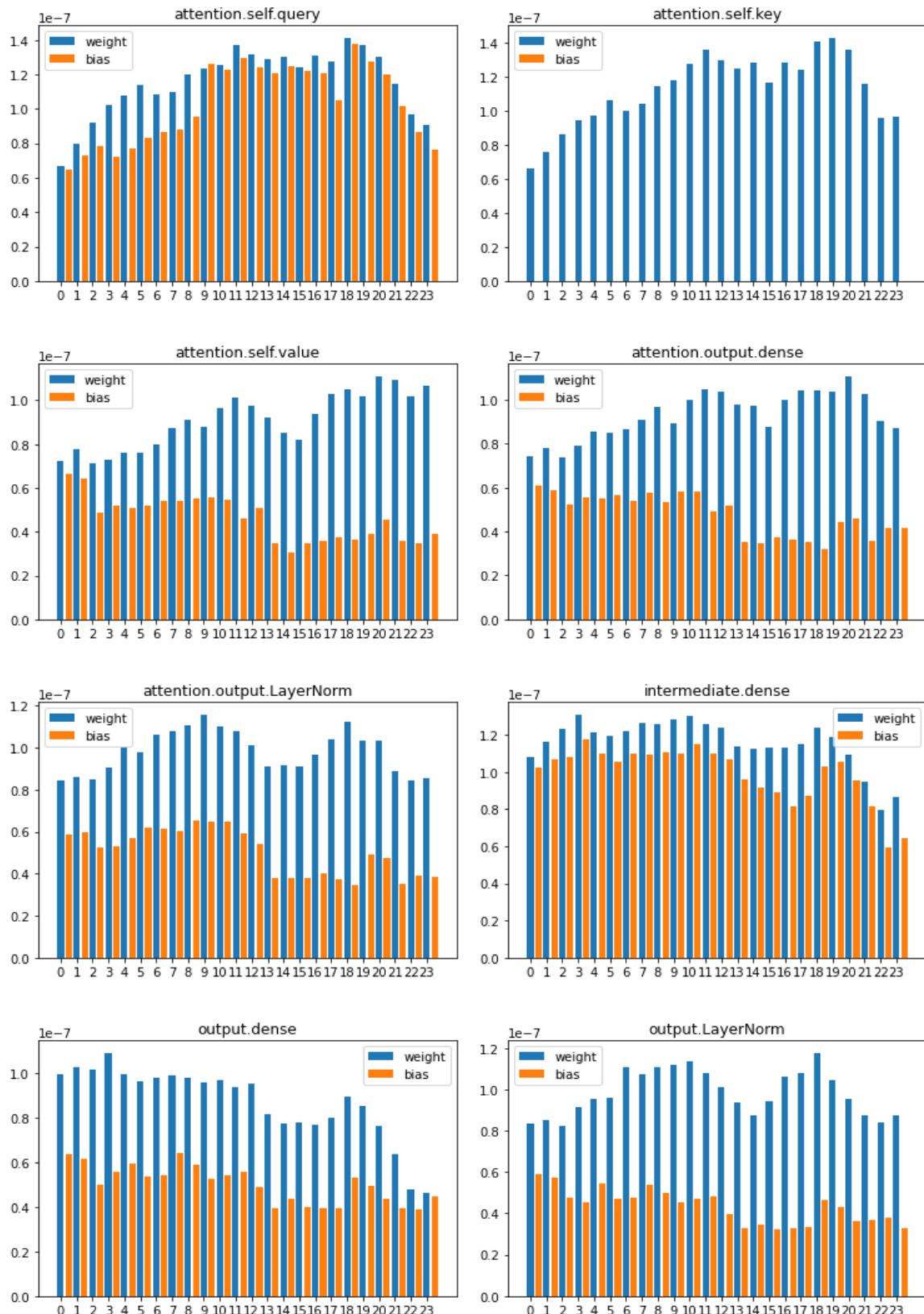


Inhalt

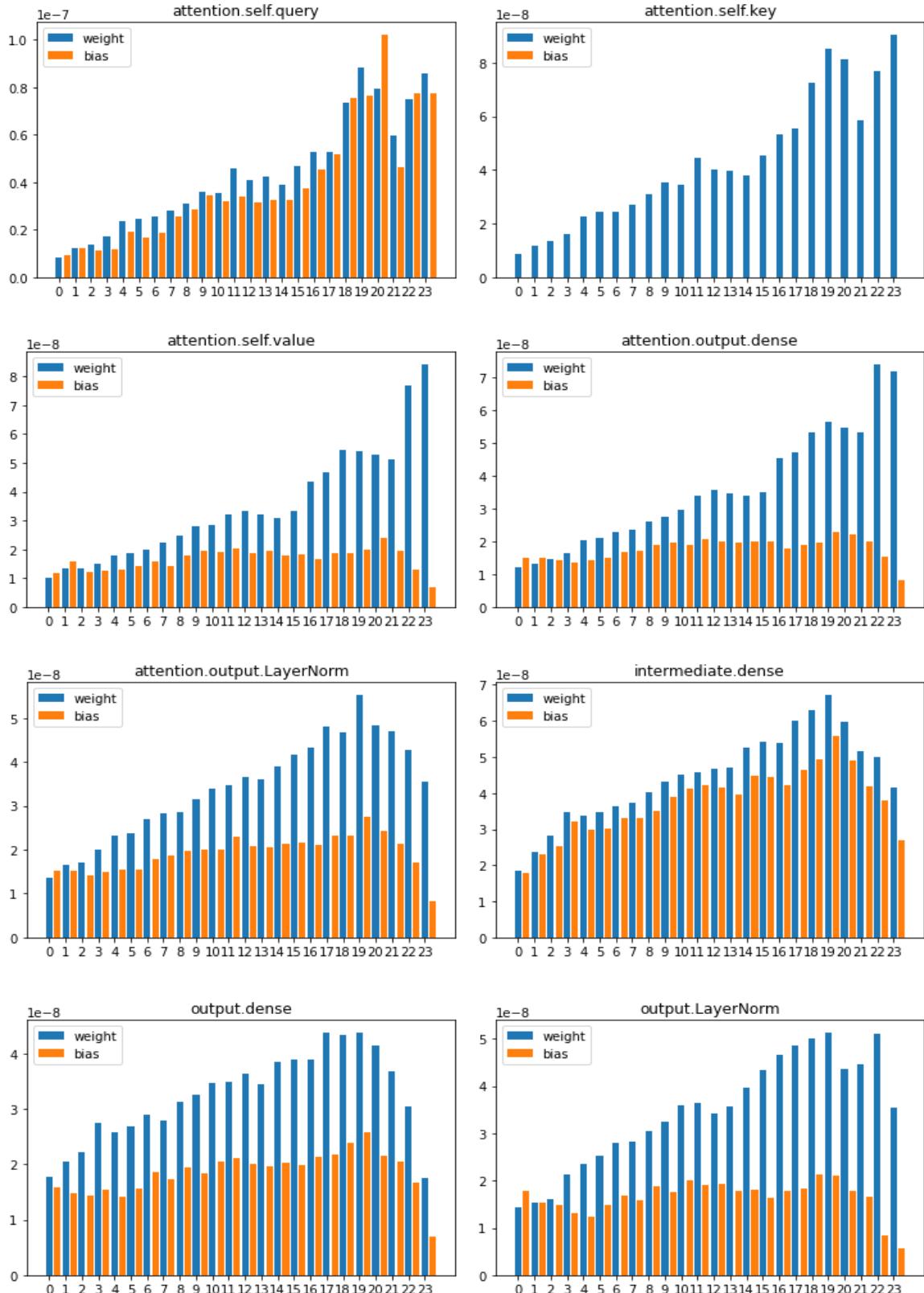
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1. Model Weight Changes

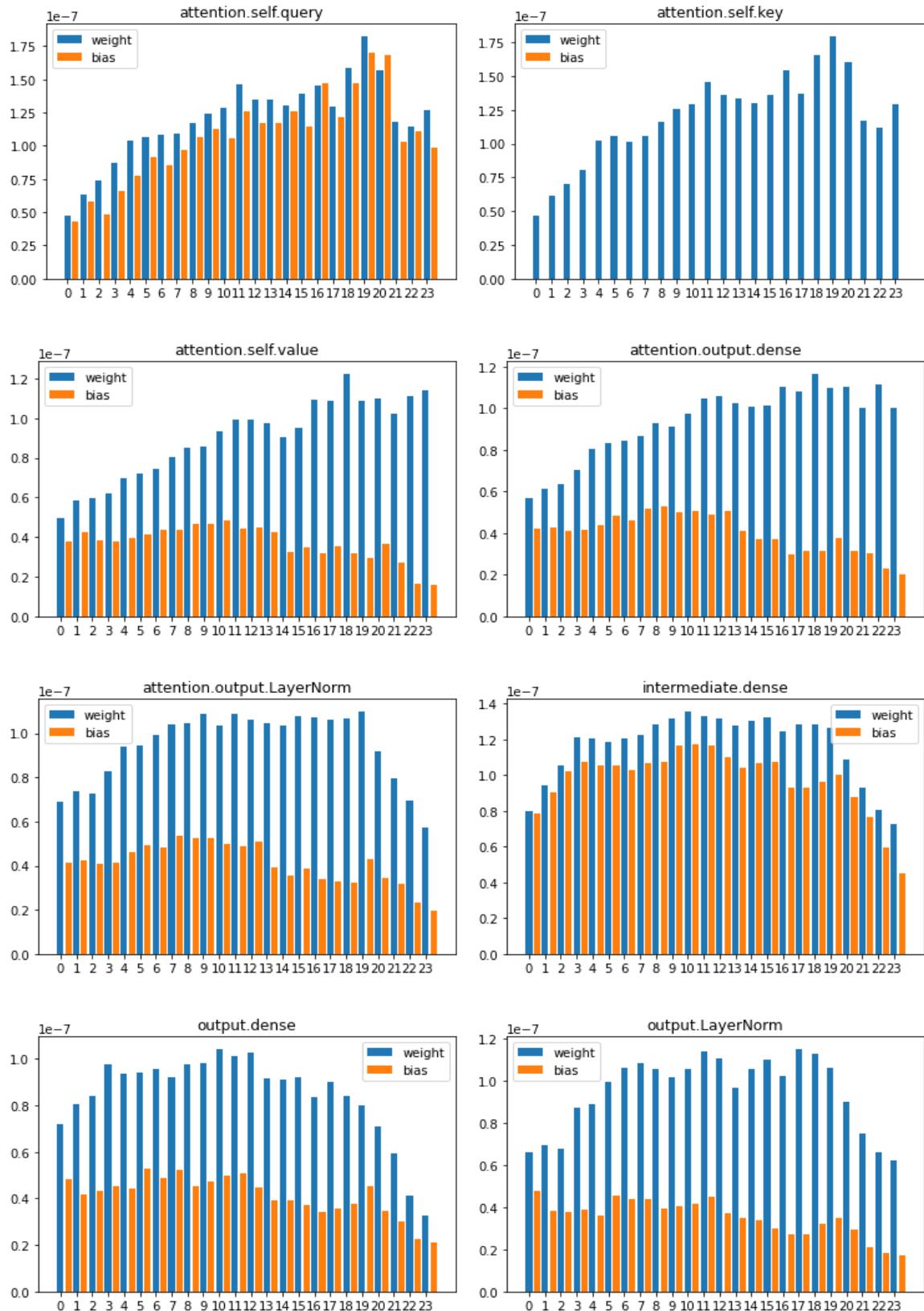
1.1. ROC Model



1.2. CLOZE Model



1.3. Mixed Model



2. Test Metrics

2.1. Cloze Test (Unmodified)

Model	Mode	Default			
		precision	recall	f1-score	support
BERT	Choice	0	0.55	0.55	0.55
		1	0.52	0.52	0.52
		accuracy		0.54	1871
		macro avg	0.54	0.54	1871
	Binary	weighted avg	0.54	0.54	1871
		precision	recall	f1-score	support
		0	0.54	0.19	0.28
	Choice	1	0.51	0.84	0.63
		accuracy		0.51	3742
		macro avg	0.52	0.51	0.45
		weighted avg	0.52	0.51	0.45
		precision	recall	f1-score	support
	RocOnly	0	0.73	0.70	0.71
		1	0.70	0.72	0.71
		accuracy		0.71	1871
	Binary	macro avg	0.71	0.71	0.71
		weighted avg	0.71	0.71	0.71
		precision	recall	f1-score	support
		0	0.52	0.99	0.68
		1	0.88	0.08	0.14
		accuracy		0.53	3742
		macro avg	0.70	0.53	0.41
		weighted avg	0.70	0.53	0.41

Model	Mode	Default			
		precision	recall	f1-score	support
ClozeOnly	Choice	0	0.91	0.91	0.91
		1	0.91	0.91	911
		accuracy		0.91	1871
		macro avg	0.91	0.91	1871
		weighted avg	0.91	0.91	1871
	Binary	precision	recall	f1-score	support
		0	0.83	0.86	0.84
		1	0.85	0.82	0.83
		accuracy		0.84	3742
		macro avg	0.84	0.84	3742
Cloze+5000Roc	Choice	weighted avg	0.84	0.84	3742
		precision	recall	f1-score	support
		0	0.92	0.92	0.92
		1	0.92	0.91	911
		accuracy		0.92	1871
	Binary	macro avg	0.92	0.92	0.92
		weighted avg	0.92	0.92	0.92
		precision	recall	f1-score	support
		0	0.78	0.92	0.84
		1	0.91	0.74	0.81
		accuracy		0.83	3742
		macro avg	0.84	0.83	3742
		weighted avg	0.84	0.83	3742

2.2. Hypothesis-Only

Model	Mode	Hypothesis-Only				
			precision	recall	f1-score	support
BERT	Choice	0	0.51	0.49	0.50	960
		1	0.48	0.50	0.49	911
		accuracy			0.50	1871
		macro avg	0.50	0.50	0.50	1871
		weighted avg	0.50	0.50	0.50	1871
	Binary		precision	recall	f1-score	support
		0	0.00	0.00	0.00	1871
		1	0.50	1.00	0.67	1871
		accuracy			0.50	3742
		macro avg	0.25	0.50	0.33	3742
	Choice	weighted avg	0.25	0.50	0.33	3742
			precision	recall	f1-score	support
		0	0.53	0.53	0.53	960
		1	0.51	0.51	0.51	911
		accuracy			0.52	1871
RocOnly	Binary	macro avg	0.52	0.52	0.52	1871
		weighted avg	0.52	0.52	0.52	1871
			precision	recall	f1-score	support
		0	0.52	0.30	0.38	1871
		1	0.51	0.73	0.60	1871
	Choice	accuracy			0.51	3742
		macro avg	0.52	0.51	0.49	3742
		weighted avg	0.52	0.51	0.49	3742

Model	Mode	Hypothesis-Only			
		precision	recall	f1-score	support
ClozeOnly	Choice	0	0.71	0.72	0.72
		1	0.70	0.70	911
		accuracy		0.71	1871
		macro avg	0.71	0.71	1871
	Binary	weighted avg	0.71	0.71	1871
		precision	recall	f1-score	support
		0	0.63	0.69	0.66
Cloze+5000Roc	Choice	1	0.66	0.59	0.62
		accuracy		0.64	3742
		macro avg	0.64	0.64	3742
		weighted avg	0.64	0.64	3742
	Binary	precision	recall	f1-score	support
		0	0.59	0.60	0.60
		1	0.57	0.56	0.57
	Choice	accuracy		0.58	1871
		macro avg	0.58	0.58	1871
		weighted avg	0.58	0.58	1871
		precision	recall	f1-score	support
	Binary	0	0.60	0.14	0.23
		1	0.51	0.91	0.65
		accuracy		0.52	3742
	Binary	macro avg	0.55	0.52	0.44
		weighted avg	0.55	0.52	0.44
		precision	recall	f1-score	support

1.3. Noise Induced Stories

Model	Mode	NoiseInduced				
			precision	recall	f1-score	support
BERT	Choice	0	0.55	0.54	0.55	960
		1	0.52	0.53	0.53	911
		accuracy			0.54	1871
		macro avg	0.54	0.54	0.54	1871
		weighted avg	0.54	0.54	0.54	1871
			precision	recall	f1-score	support
		0	0.53	0.20	0.29	1871
RocOnly	Binary	1	0.51	0.82	0.63	1871
		accuracy			0.51	3742
		macro avg	0.52	0.51	0.46	3742
		weighted avg	0.52	0.51	0.46	3742
			precision	recall	f1-score	support
		0	0.71	0.69	0.70	960
		1	0.68	0.70	0.69	911
	Choice	accuracy			0.70	1871
		macro avg	0.70	0.70	0.70	1871
		weighted avg	0.70	0.70	0.70	1871
			precision	recall	f1-score	support
		0	0.51	0.98	0.68	1871
		1	0.81	0.07	0.13	1871
		accuracy			0.53	3742
	Binary	macro avg	0.66	0.53	0.40	3742
		weighted avg	0.66	0.53	0.40	3742

Model	Mode	NoiseInduced	precision	recall	f1-score	support
ClozeOnly	Choice	0	0.91	0.90	0.91	960
		1	0.90	0.91	0.90	911
		accuracy			0.90	1871
	Binary	macro avg	0.90	0.90	0.90	1871
		weighted avg	0.90	0.90	0.90	1871
		precision	recall	f1-score	support	
Cloze+5000Roc	Choice	0	0.83	0.85	0.84	1871
		1	0.85	0.83	0.84	1871
		accuracy			0.84	3742
	Binary	macro avg	0.84	0.84	0.84	3742
		weighted avg	0.84	0.84	0.84	3742
		precision	recall	f1-score	support	
Cloze+5000Roc	Choice	0	0.91	0.91	0.91	960
		1	0.90	0.90	0.90	911
		accuracy			0.91	1871
	Binary	macro avg	0.91	0.91	0.91	1871
		weighted avg	0.91	0.91	0.91	1871
		precision	recall	f1-score	support	
Cloze+5000Roc	Choice	0	0.78	0.92	0.84	1871
		1	0.90	0.74	0.81	1871
		accuracy			0.83	3742
	Binary	macro avg	0.84	0.83	0.83	3742
		weighted avg	0.84	0.83	0.83	3742
		precision	recall	f1-score	support	

2.4. Negated Stories

Model	Mode	Negated			
		precision	recall	f1-score	support
BERT	Choice	0	0.49	0.40	0.44
		1	0.49	0.58	0.53
		accuracy		0.49	100
		macro avg	0.49	0.49	100
		weighted avg	0.49	0.49	100
	Binary	precision	recall	f1-score	support
		0	0.56	0.09	0.16
		1	0.51	0.93	0.65
		accuracy		0.51	200
RocOnly	Choice	macro avg	0.53	0.51	0.41
		weighted avg	0.53	0.51	0.41
		precision	recall	f1-score	support
		0	0.41	0.44	0.42
		1	0.39	0.36	0.37
	Binary	accuracy		0.40	100
		macro avg	0.40	0.40	100
		weighted avg	0.40	0.40	100
		precision	recall	f1-score	support
	Choice	0	0.47	0.87	0.61
		1	0.19	0.03	0.05
		accuracy		0.45	200
		macro avg	0.33	0.45	0.33
		weighted avg	0.33	0.45	0.33
	Binary	precision	recall	f1-score	support
		0	0.47	0.87	0.61
		1	0.19	0.03	0.05
		accuracy		0.45	200

Model	Mode	Negated			
		precision	recall	f1-score	support
<u>ClozeOnly</u>	Choice	0	0.42	0.42	0.42
		1	0.42	0.42	50
		accuracy		0.42	100
		macro avg	0.42	0.42	100
		weighted avg	0.42	0.42	100
	Binary	precision	recall	f1-score	support
		0	0.45	0.35	100
		1	0.47	0.58	100
		accuracy		0.47	200
<u>Cloze+5000Roc</u>	Choice	macro avg	0.46	0.46	200
		weighted avg	0.46	0.47	200
	Binary	precision	recall	f1-score	support
		0	0.48	0.48	50
		1	0.48	0.48	50
		accuracy		0.48	100
		macro avg	0.48	0.48	100
		weighted avg	0.48	0.48	100
		precision	recall	f1-score	support
		0	0.46	0.52	100
		1	0.45	0.40	100
		accuracy		0.46	200
		macro avg	0.46	0.46	200
		weighted avg	0.46	0.46	200

2.5. Stories Containing Trigger Words

Model	Mode	TriggerOnly					
				precision	recall	f1-score	support
BERT	Choice	0	0.62	0.55	0.58	96	
			0.51	0.58	0.54	78	
		accuracy			0.56	174	
	Binary	macro avg	0.56	0.56	0.56	174	
		weighted avg	0.57	0.56	0.56	174	
				precision	recall	f1-score	support
	RocOnly	0	0.53	0.16	0.24	174	
			0.51	0.86	0.64	174	
		accuracy			0.51	348	
	Choice	macro avg	0.52	0.51	0.44	348	
		weighted avg	0.52	0.51	0.44	348	
				precision	recall	f1-score	support
	Binary	0	0.80	0.70	0.74	96	
			0.68	0.78	0.73	78	
		accuracy			0.74	174	
	RocOnly	macro avg	0.74	0.74	0.74	174	
		weighted avg	0.74	0.74	0.74	174	
				precision	recall	f1-score	support
	Binary	0	0.53	0.99	0.69	174	
			0.95	0.12	0.21	174	
		accuracy			0.56	348	
	RocOnly	macro avg	0.74	0.56	0.45	348	
		weighted avg	0.74	0.56	0.45	348	

Model	Mode	TriggerOnly						
				precision	recall	f1-score	support	
ClozeOnly	Choice	0	0.94	0.94	0.94	0.94	96	
							78	
	weighted avg	accuracy				0.93	174	
		macro avg		0.93	0.93	0.93	174	
		weighted avg		0.93	0.93	0.93	174	
	Binary	0	0.80	0.89	0.84	0.84	174	
							174	
	weighted avg	accuracy				0.83	348	
		macro avg		0.84	0.83	0.83	348	
		weighted avg		0.84	0.83	0.83	348	
Cloze+5000Roc	Choice	0	0.96	0.95	0.95	0.95	96	
							78	
	weighted avg	accuracy				0.95	174	
		macro avg		0.95	0.95	0.95	174	
		weighted avg		0.95	0.95	0.95	174	
	Binary	0	0.78	0.93	0.85	0.85	174	
							174	
	weighted avg	accuracy				0.83	348	
		macro avg		0.84	0.83	0.83	348	
		weighted avg		0.84	0.83	0.83	348	

2.6. Stories Containing Trigger Words – Triggers Removed

Model	Mode	TriggerRemoved			
		precision	recall	f1-score	support
BERT	Choice	0	0.64	0.60	0.62
		1	0.54	0.58	0.56
		accuracy		0.59	174
	Binary	macro avg	0.59	0.59	0.59
		weighted avg	0.59	0.59	0.59
		precision	recall	f1-score	support
	Choice	0	0.61	0.17	0.27
		1	0.52	0.89	0.66
		accuracy		0.53	348
RocOnly	Binary	macro avg	0.57	0.53	0.46
		weighted avg	0.57	0.53	0.46
		precision	recall	f1-score	support
	Choice	0	0.79	0.71	0.75
		1	0.68	0.77	0.72
		accuracy		0.74	174
	Binary	macro avg	0.74	0.74	0.74
		weighted avg	0.74	0.74	0.74
		precision	recall	f1-score	support
	Choice	0	0.53	0.99	0.69
		1	0.91	0.11	0.20
		accuracy		0.55	348
	Binary	macro avg	0.72	0.55	0.45
		weighted avg	0.72	0.55	0.45
		precision	recall	f1-score	support

Model	Mode	TriggerRemoved			
		precision	recall	f1-score	support
ClozeOnly	Choice	0	0.94	0.92	0.93
		1	0.90	0.92	0.91
		accuracy		0.92	174
	Binary	macro avg	0.92	0.92	0.92
		weighted avg	0.92	0.92	0.92
		precision	recall	f1-score	support
	Choice	0	0.79	0.82	0.81
		1	0.82	0.79	0.80
		accuracy		0.80	348
Cloze+5000Roc	Binary	macro avg	0.80	0.80	0.80
		weighted avg	0.80	0.80	0.80
		precision	recall	f1-score	support
	Choice	0	0.96	0.90	0.92
		1	0.88	0.95	0.91
		accuracy		0.92	174
	Binary	macro avg	0.92	0.92	0.92
		weighted avg	0.92	0.92	0.92
		precision	recall	f1-score	support
	Choice	0	0.80	0.90	0.85
		1	0.88	0.78	0.83
		accuracy		0.84	348
	Binary	macro avg	0.84	0.84	0.84
		weighted avg	0.84	0.84	0.84
		precision	recall	f1-score	support

2.7. Stories Containing Trigger Words – Trigger Synonymized

Model	Mode	TriggerSynonymized			
		precision	recall	f1-score	support
BERT	Choice	0	0.63	0.56	0.59
		1	0.52	0.59	0.55
		accuracy		0.57	174
	Binary	macro avg	0.58	0.58	0.57
		weighted avg	0.58	0.57	0.58
		precision	recall	f1-score	support
	Choice	0	0.57	0.16	0.24
		1	0.51	0.89	0.65
		accuracy		0.52	348
RocOnly	Binary	macro avg	0.54	0.52	0.45
		weighted avg	0.54	0.52	0.45
		precision	recall	f1-score	support
	Choice	0	0.79	0.72	0.75
		1	0.69	0.77	0.73
		accuracy		0.74	174
	Binary	macro avg	0.74	0.74	0.74
		weighted avg	0.75	0.74	0.74
		precision	recall	f1-score	support
	Choice	0	0.53	0.99	0.69
		1	0.95	0.12	0.21
		accuracy		0.56	348
	Binary	macro avg	0.74	0.56	0.45
		weighted avg	0.74	0.56	0.45
		precision	recall	f1-score	support

Model	Mode	TriggerSynonymized				
			precision	recall	f1-score	support
ClozeOnly	Choice	0	0.94	0.93	0.93	96
		1	0.91	0.92	0.92	78
		accuracy			0.93	174
	Binary	macro avg	0.92	0.93	0.92	174
		weighted avg	0.93	0.93	0.93	174
		precision		recall	f1-score	support
	Choice	0	0.80	0.87	0.83	174
		1	0.86	0.79	0.82	174
		accuracy			0.83	348
Cloze+5000Roc	Binary	macro avg	0.83	0.83	0.83	348
		weighted avg	0.83	0.83	0.83	348
		precision		recall	f1-score	support
	Choice	0	0.97	0.93	0.95	96
		1	0.91	0.96	0.94	78
		accuracy			0.94	174
	Binary	macro avg	0.94	0.94	0.94	174
		weighted avg	0.94	0.94	0.94	174
		precision		recall	f1-score	support
	Choice	0	0.78	0.93	0.85	174
		1	0.91	0.74	0.81	174
		accuracy			0.83	348
	Binary	macro avg	0.84	0.83	0.83	348
		weighted avg	0.84	0.83	0.83	348
		precision		recall	f1-score	support

2.8. Stories Translated

This test set was translated from English to Hungarian to Slovenian to English.

Model	Mode	Translated				
			precision	recall	f1-score	support
BERT	Choice	0	0.54	0.54	0.54	960
		1	0.52	0.52	0.52	911
		accuracy			0.53	1871
		macro avg	0.53	0.53	0.53	1871
		weighted avg	0.53	0.53	0.53	1871
	Binary		precision	recall	f1-score	support
		0	0.52	0.14	0.23	1871
		1	0.50	0.87	0.64	1871
		accuracy			0.51	3742
RocOnly	Choice	macro avg	0.51	0.51	0.43	3742
		weighted avg	0.51	0.51	0.43	3742
			precision	recall	f1-score	support
		0	0.37	0.36	0.36	960
		1	0.35	0.36	0.35	911
	Binary	accuracy			0.36	1871
		macro avg	0.36	0.36	0.36	1871
		weighted avg	0.36	0.36	0.36	1871
			precision	recall	f1-score	support
		0	0.31	0.06	0.10	1871
		1	0.48	0.87	0.62	1871
		accuracy			0.46	3742
		macro avg	0.40	0.46	0.36	3742
		weighted avg	0.40	0.46	0.36	3742

Model	Mode	Translated				
		precision	recall	f1-score	support	
ClozeOnly	Choice	0	0.87	0.89	0.88	960
		1	0.88	0.86	0.87	911
		accuracy		0.87	1871	
	Binary	macro avg	0.87	0.87	0.87	1871
		weighted avg	0.87	0.87	0.87	1871
		precision	recall	f1-score	support	
	Choice	0	0.81	0.81	0.81	1871
		1	0.81	0.81	0.81	1871
		accuracy		0.81	3742	
Cloze+5000Roc	Binary	macro avg	0.81	0.81	0.81	3742
		weighted avg	0.81	0.81	0.81	3742
		precision	recall	f1-score	support	
	Choice	0	0.87	0.88	0.88	960
		1	0.88	0.86	0.87	911
		accuracy		0.87	1871	
	Binary	macro avg	0.87	0.87	0.87	1871
		weighted avg	0.87	0.87	0.87	1871
		precision	recall	f1-score	support	
	Choice	0	0.75	0.85	0.80	1871
		1	0.83	0.71	0.77	1871
		accuracy		0.78	3742	
	Binary	macro avg	0.79	0.78	0.78	3742
		weighted avg	0.79	0.78	0.78	3742

2.9. Super Hard Test Set

Model	Mode	Super Hard Testset				
		precision	recall	f1-score	support	
BERT	Choice	0	0.47	0.49	0.48	49
		1	0.48	0.46	0.47	50
		accuracy		0.47	99	
		macro avg	0.47	0.47	0.47	99
	Binary	weighted avg	0.47	0.47	0.47	99
		precision	recall	f1-score	support	
		0	0.39	0.07	0.12	99
	Choice	1	0.49	0.89	0.63	99
		accuracy		0.48	198	
		macro avg	0.44	0.48	0.38	198
		weighted avg	0.44	0.48	0.38	198
RocOnly	Choice	precision	recall	f1-score	support	
		0	0.43	0.43	0.43	49
		1	0.44	0.44	0.44	50
		accuracy		0.43	99	
	Binary	macro avg	0.43	0.43	0.43	99
		weighted avg	0.43	0.43	0.43	99
		precision	recall	f1-score	support	
	Binary	0	0.53	0.92	0.67	99
		1	0.70	0.19	0.30	99
		accuracy		0.56	198	
		macro avg	0.62	0.56	0.49	198
		weighted avg	0.62	0.56	0.49	198

Model	Mode	Super Hard Testset			
		precision	recall	f1-score	support
ClozeOnly	Choice	0	0.54	0.53	0.54
		1	0.55	0.56	0.55
		accuracy		0.55	99
		macro avg	0.55	0.55	99
	Binary	weighted avg	0.55	0.55	99
		precision	recall	f1-score	support
		0	0.57	0.36	0.44
	Choice	1	0.53	0.73	0.62
		accuracy		0.55	198
		macro avg	0.55	0.55	198
		weighted avg	0.55	0.55	198
Cloze+5000Roc	Binary	precision	recall	f1-score	support
		0	0.60	0.59	0.60
		1	0.61	0.62	0.61
		accuracy		0.61	99
	Choice	macro avg	0.61	0.61	99
		weighted avg	0.61	0.61	99
		precision	recall	f1-score	support
	Binary	0	0.54	0.51	0.52
		1	0.53	0.57	0.55
		accuracy		0.54	198
		macro avg	0.54	0.54	198
		weighted avg	0.54	0.54	198

2.10. Cloze-Test (Unmodified), Short

This test set comprises the same stories as the negated test set and the super hard test set.

Model	Mode	Default (first 100 stories only)			
		precision	recall	f1-score	support
BERT	Choice	0	0.53	0.63	0.58
		1	0.56	0.46	0.51
		accuracy		0.55	99
		macro avg	0.55	0.55	99
	Binary	weighted avg	0.55	0.55	99
		precision	recall	f1-score	support
		0	0.46	0.12	0.19
	Choice	1	0.49	0.86	0.63
		accuracy		0.49	198
		macro avg	0.48	0.49	198
		weighted avg	0.48	0.49	198
RocOnly	Choice	precision	recall	f1-score	support
		0	0.67	0.73	0.70
		1	0.71	0.64	0.67
		accuracy		0.69	99
	Binary	macro avg	0.69	0.69	99
		weighted avg	0.69	0.69	99
		precision	recall	f1-score	support
	Binary	0	0.53	1.00	0.69
		1	1.00	0.10	0.18
	Choice	accuracy		0.55	198
		macro avg	0.76	0.55	198
		weighted avg	0.76	0.55	198

Model	Mode	Default (first 100 stories only)			
		precision	recall	f1-score	support
ClozeOnly	Choice	0	0.91	0.98	0.94
		1	0.98	0.90	0.94
		accuracy		0.94	99
		macro avg	0.94	0.94	99
	Binary	weighted avg	0.94	0.94	99
		precision	recall	f1-score	support
		0	0.84	0.88	0.86
Cloze+5000Roc	Choice	1	0.87	0.83	0.85
		accuracy		0.85	198
		macro avg	0.85	0.85	198
		weighted avg	0.85	0.85	198
	Binary	precision	recall	f1-score	support
		0	0.96	0.94	0.95
		1	0.94	0.96	0.95

3. Salience Maps

DISCLAIMER: The stories listed for each point are either exhaustive or sampled randomly. All saliency maps are based on the loss calculated in the binary test setup. The tokens marked red indicate the true class, the tokens marked blue indicate the false class.

3.1. Inducing Noise

Each randomly sampled story shows the saliencies assigned to it by BERT, ROC model, CLOZE model, and MIXED model. For each model, two stories are shown: The first is the default story, the second one the story induced with noise.

3.1.1 Sample 1

BERT:

[CLS] ned wants a hobby that will get him outside. he decides to plant a vegetable garden in his yard. ned plants tomato, eggplant, and pepper in his garden. he is surprised by how much work it takes. [SEP] ned is proud of his hard work and tasty vegetables. [SEP]

[CLS] ned wants a hobby that will get him outside. last saturday he decides to plant a vegetable garden in his yard. in china, ned plants tomato, eggplant, and pepper in his garden. afterwards, he is surprised by how much work it takes. [SEP] ned is proud of his hard work and tasty vegetables. [SEP]

ROC Model:

[CLS] ned wants a hobby that will get him outside. he decides to plant a vegetable garden in his yard. ned plants tomato, eggplant, and pepper in his garden. he is surprised by how much work it takes. [SEP] ned is proud of his hard work and tasty vegetables. [SEP]

[CLS] ned wants a hobby that will get him outside. last saturday he decides to plant a vegetable garden in his yard. in china, ned plants tomato, eggplant, and pepper in his garden. afterwards, he is surprised by how much work it takes. [SEP] ned is proud of his hard work and tasty vegetables. [SEP]

CLOZE Model:

[CLS] ned wants a hobby that will get him outside. he decides to plant a vegetable garden in his yard. ned plants tomato, eggplant, and pepper in his garden. he is surprised by how much work it takes. [SEP] ned is proud of his hard work and tasty vegetables. [SEP]

[CLS] ned wants a hobby that will get him outside. last saturday he decides to plant a vegetable garden in his yard. in china, ned plants tomato, eggplant, and pepper in his garden. afterwards, he is surprised by how much work it takes. [SEP] ned is proud of his hard work and tasty vegetables. [SEP]

MIXED Model:

[CLS] ned wants a hobby that will get him outside. he decides to plant a vegetable garden in his yard. ned plants tomato, eggplant, and pepper in his garden. he is surprised by how much work it takes. [SEP] ned is proud of his hard work and tasty vegetables. [SEP]

[CLS] ned wants a hobby that will get him outside. last saturday he decides to plant a vegetable garden in his yard. in china, ned plants tomato, eggplant, and pepper in his garden. afterwards, he is surprised by how much work it takes. [SEP] ned is proud of his hard work and tasty vegetables. [SEP]

3.1.2 Sample 2

BERT:

[CLS] today's lab assignment turned out to be a disaster. since my teammates were confused, i had to guide them. this includes showing them how to do every procedure. although we finished after everyone else, i put in a lot of effort. [SEP] the team didn't need me that day. [SEP]

[CLS] today's lab assignment turned out to be a disaster. also, since my teammates were confused, i had to guide them. in bai'e, this includes showing them how to do every procedure. certainly, although we finished after everyone else, i put in a lot of effort. [SEP] the team didn't need me that day. [SEP]

ROC Model:

[CLS] today's lab assignment turned out to be a disaster. since my teammates were confused, i had to guide them. this includes showing them how to do every procedure. although we finished after everyone else, i put in a lot of effort. [SEP] the team didn't need me that day. [SEP]

[CLS] today's lab assignment turned out to be a disaster. also, since my teammates were confused, i had to guide them. in bai'e, this includes showing them how to do every procedure. certainly, although we finished after everyone else, i put in a lot of effort. [SEP] the team didn't need me that day. [SEP]

CLOZE Model:

[CLS] today's lab assignment turned out to be a disaster. since my teammates were confused, i had to guide them. this includes showing them how to do every procedure. although we finished after everyone else, i put in a lot of effort. [SEP] the team didn't need me that day. [SEP]

[CLS] today's lab assignment turned out to be a disaster. also, since my teammates were confused, i had to guide them. in bai'e, this includes showing them how to do every procedure. certainly, although we finished after everyone else, i put in a lot of effort. [SEP] the team didn't need me that day. [SEP]

MIXED Model:

[CLS] today's lab assignment turned out to be a disaster. since my teammates were confused, i had to guide them. this includes showing them how to do every procedure. although we finished after everyone else, i put in a lot of effort. [SEP] the team didn't need me that day. [SEP]

[CLS] today's lab assignment turned out to be a disaster. also, since my teammates were confused, i had to guide them. in bai'e, this includes showing them how to do every procedure. certainly, although we finished after everyone else, i put in a lot of effort. [SEP] the team didn't need me that day. [SEP]

3.1.3 Sample 3

BERT:

[CLS] dennis was walking in the woods. he found a black lab. the lab tried to bite him. dennis showed he was a friend not enemy. [SEP] the rabbit hopped away. [SEP]

[CLS] dennis was walking in the woods. well, he found a black lab. however, the lab tried to bite him. in alg odre, dennis showed he was a friend not enemy. [SEP] the rabbit hopped away. [SEP]

ROC Model:

[CLS] dennis was walking in the woods. he found a black lab. the lab tried to bite him. dennis showed he was a friend not enemy. [SEP] the rabbit hopped away. [SEP]

[CLS] dennis was walking in the woods. well, he found a black lab. however, the lab tried to bite him. in alg odre, dennis showed he was a friend not enemy. [SEP] the rabbit hopped away. [SEP]

CLOZE Model:

[CLS] dennis was walking in the woods. he found a black lab. the lab tried to bite him. dennis showed he was a friend not enemy. [SEP] the rabbit hopped away. [SEP]

[CLS] dennis was walking in the woods. well, he found a black lab. however, the lab tried to bite him. in alg odre, dennis showed he was a friend not enemy. [SEP] the rabbit hopped away. [SEP]

MIXED Model:

[CLS] dennis was walking in the woods. he found a black lab. the lab tried to bite him. dennis showed he was a friend not enemy. [SEP] the rabbit hopped away. [SEP]

[CLS] dennis was walking in the woods. well, he found a black lab. however, the lab tried to bite him. in alg odre, dennis showed he was a friend not enemy. [SEP] the rabbit hopped away. [SEP]

3.1.4 Sample 4

BERT:

[CLS] timothy had an urge to eat sweets. he was looking everywhere for something sweet to eat. he found what he was looking for. it was a gigantic cupcake his mom made. [SEP] timothy eat the cupcake in one big bite. [SEP]

[CLS] timothy had an urge to eat sweets. in pouembout, he was looking everywhere for something sweet to eat. what's more, he found what he was looking for. some time ago, it was a gigantic cupcake his mom mad e. [SEP] timothy eat the cupcake in one big bite. [SEP]

ROC Model:

[CLS] timothy had an urge to eat sweets. he was looking everywhere for something sweet to eat. he found what he was looking for. it was a gigantic cupcake his mom made. [SEP] timothy eat the cupcake in one big bite. [SEP]

[CLS] timothy had an urge to eat sweets. in pouembout, he was looking everywhere for something sweet to eat. what's more, he found what he was looking for. some time ago, it was a gigantic cupcake his mom mad e. [SEP] timothy eat the cupcake in one big bite. [SEP]

CLOZE Model:

[CLS] timothy had an urge to eat sweets. he was looking everywhere for something sweet to eat. he found what he was looking for. it was a gigantic cupcake his mom made. [SEP] timothy eat the cupcake in one big bite. [SEP]

[CLS] timothy had an urge to eat sweets. in pouembout, he was looking everywhere for something sweet to eat. what's more, he found what he was looking for. some time ago, it was a gigantic cupcake his mom mad

e. [SEP] timothy eat the cupcake in one big bite. [SEP]

MIXED Model:

[CLS] timothy had an urge to eat sweets. he was looking everywhere for something sweet to eat. he found what he was looking for. it was a gigantic cupcake his mom made. [SEP] timothy eat the cupcake in one big bite. [SEP]

[CLS] timothy had an urge to eat sweets. in pouembout, he was looking everywhere for something sweet to eat. what's more, he found what he was looking for. some time ago, it was a gigantic cupcake his mom mad e. [SEP] timothy eat the cupcake in one big bite. [SEP]

3.1.5 Sample 5

BERT:

[CLS] peter was very hungry. he only had two dollars in his bank account. he decided to go to the grocery s tore. luckily, noodles were on sale for less than two dollars. [SEP] peter bought noodles. [SEP]

[CLS] last summer peter was very hungry. certainly, he only had two dollars in his bank account. thereafter, he decided to go to the grocery store. anyway, luckily, noodles were on sale for less than two dollars. [SEP] peter bought noodles. [SEP]

ROC Model:

[CLS] peter was very hungry. he only had two dollars in his bank account. he decided to go to the grocery s tore. luckily, noodles were on sale for less than two dollars. [SEP] peter bought noodles. [SEP]

[CLS] last summer peter was very hungry. certainly, he only had two dollars in his bank account. thereafter, he decided to go to the grocery store. anyway, luckily, noodles were on sale for less than two dollars. [SEP] peter bought noodles. [SEP]

CLOZE Model:

[CLS] peter was very hungry. he only had two dollars in his bank account. he decided to go to the grocery s tore. luckily, noodles were on sale for less than two dollars. [SEP] peter bought noodles. [SEP]

[CLS] last summer peter was very hungry. certainly, he only had two dollars in his bank account. thereafter, he decided to go to the grocery store. anyway, luckily, noodles were on sale for less than two dollars. [SEP] peter bought noodles. [SEP]

MIXED Model:

[CLS] peter was very hungry. he only had two dollars in his bank account. he decided to go to the grocery s tore. luckily, noodles were on sale for less than two dollars. [SEP] peter bought noodles. [SEP]

[CLS] last summer peter was very hungry. certainly, he only had two dollars in his bank account. thereafter, he decided to go to the grocery store. anyway, luckily, noodles were on sale for less than two dollars. [SEP] peter bought noodles. [SEP]

BERT:

[CLS] david's parents got him a bike. he didn't want one. but he didn't want his gift to go to waste. after le arning how to ride the bike, he was glad he had one. [SEP] david ran away from home. [SEP]

[CLS] david's parents got him a bike. in spain, he didn't want one. thus, but he didn't want his gift to go to waste. however, after learning how to ride the bike, he was glad he had one. [SEP] david ran away from home. [SEP]

ROC Model:

[CLS] david's parents got him a bike. he didn't want one. but he didn't want his gift to go to waste. after learning how to ride the bike, he was glad he had one. [SEP] david ran away from home. [SEP]

[CLS] david's parents got him a bike. in spain, he didn't want one. thus, but he didn't want his gift to go to waste. however, after learning how to ride the bike, he was glad he had one. [SEP] david ran away from home. [SEP]

CLOZE Model:

[CLS] david's parents got him a bike. he didn't want one. but he didn't want his gift to go to waste. after learning how to ride the bike, he was glad he had one. [SEP] david ran away from home. [SEP]

[CLS] david's parents got him a bike. in spain, he didn't want one. thus, but he didn't want his gift to go to waste. however, after learning how to ride the bike, he was glad he had one. [SEP] david ran away from home. [SEP]

MIXED Model:

[CLS] david's parents got him a bike. he didn't want one. but he didn't want his gift to go to waste. after learning how to ride the bike, he was glad he had one. [SEP] david ran away from home. [SEP]

[CLS] david's parents got him a bike. in spain, he didn't want one. thus, but he didn't want his gift to go to waste. however, after learning how to ride the bike, he was glad he had one. [SEP] david ran away from home. [SEP]

3.2. Trigger Words

In the following document, saliency mappings of tokens for one sentence for each trigger word is shown. For each trained model, the mapping for each trigger word is done for the original sentence (with triggers), the sentence with triggers removed and the sentence with triggers changed to a synonym (triggers synonymized). Additionally, the actual label (label) and the label predicted by the model (prediction) is shown. The labelling for Huggingface transformers is used. As a result, "0" means the ending is true and "1" means the ending is false.

3.2.1. ROC model

sentences with instead:

with triggers label:0

prediction:0 [CLS] aaron ' s girlfriend asked him to come over for dinner . she said she was making his favorite , chicken alfredo . aaron was very excited she wanted to cook , but he hated alfredo . she must have mixed up his words when he told her his least favorite . [SEP] aaron suggested he help her cook another meal instead . [SEP]

triggers removed label:0

prediction:0 [CLS] aaron ' s girlfriend asked him to come over for dinner . she said she was making his favorite , chicken alfredo . aaron was very excited she wanted to cook , but he hated alfredo . she must have mixed up his words when he told her his least favorite . [SEP] aaron suggested he help her cook another meal . [SEP]

triggers synonymized label:0

prediction:0 [CLS] aaron ' s girlfriend asked him to come over for dinner . she said she was making his favorite , chicken alfredo . aaron was very excited she wanted to cook , but he hated alfredo . she must have mixed up his words when he told her his least favorite . [SEP] aaron suggested he help her cook another meal alternatively . [SEP]

sentences with ever:

with triggers label:1

prediction:0 [CLS] ed wanted to make homemade juice for his family . he bought a bag of orange ##s and juice ##d them . then he chilled the juice overnight . in the morning , he served it to his family . [SEP] it was the best apple juice that they had ever had . [SEP]

triggers removed label:1

prediction:0 [CLS] ed wanted to make homemade juice for his family . he bought a bag of orange ##s and juice ##d them . then he chilled the juice overnight . in the morning , he served it to his family . [SEP] it was the best apple juice that they had had . [SEP]

triggers synonymized label:1

prediction:0 [CLS] ed wanted to make homemade juice for his family . he bought a bag of orange ##s and juice ##d them . then he chilled the juice overnight . in the morning , he served it to his family . [SEP] it was the best apple juice that they had at any point had . [SEP]

sentences with anymore:

with triggers label:1

prediction:0 [CLS] pam was in love with josh but she didn't know how to get his attention . s he talked to her friends , and she talked to her parents . they all offered advice that didn ' t quite work for her . finally , she just went up to him and told him her feelings . [SEP] pam ' s friends won ' t talk to her anymore . [SEP]

triggers removed label:1

prediction:0 [CLS] pam was in love with josh but she didn't know how to get his attention . s he talked to her friends , and she talked to her parents . they all offered advice that didn ' t quite work for her . finally , she just went up to him and told him her feelings . [SEP] pam ' s friends won ' t talk to her . [SEP]

triggers synonymized label:1

prediction:0 [CLS] pam was in love with josh but she didn't know how to get his attention . s he talked to her friends , and she talked to her parents . they all offered advice that didn ' t quite work for her . finally , she just went up to him and told him her feelings . [SEP] pam ' s friends won ' t talk to her any further . [SEP]

sentences with too:

with triggers label:0

prediction:0 [CLS] jeff just got engaged to his girlfriend ashley ! they are very happy and started planning the wedding right away . within hours they realized how expensive everything is going to be . jeff decided to get a part time job to pay for all of this . [SEP] ashley got a part time job too . [SEP]

triggers removed label:0

prediction:0 [CLS] jeff just got engaged to his girlfriend ashley ! they are very happy and started planning the wedding right away . within hours they realized how expensive everything is going to be . jeff decided to get a part time job to pay for all of this . [SEP] ashley got a part time job . [SEP]

triggers synonymized label:0

prediction:0 [CLS] jeff just got engaged to his girlfriend ashley ! they are very happy and started planning the wedding right away . within hours they realized how expensive everything is going to be . jeff decided to get a part time job to pay for all of this . [SEP] ashley got a part time job as well . [SEP]

sentences with eventually:

with triggers label:0

prediction:0 [CLS] my friend got me a plant ##er as a house ##war ##ming gift . it ' s small and cute and fits in nicely with my decor . but i ' m still not sure where to put it . i hope he doesn ' t get sad . [SEP] i ' m sure i ' ll figure out a place for it eventually . [SEP]

triggers removed label:0

prediction:0 [CLS] my friend got me a plant ##er as a house ##war ##ming gift . it ' s small an d cute and fits in nicely with my decor . but i ' m still not sure where to put it . i hope he d oesn ' t get sad . [SEP] i ' m sure i ' ll figure out a place for it . [SEP]

triggers synonymized label:0

prediction:0 [CLS] my friend got me a plant ##er as a house ##war ##ming gift . it ' s small an d cute and fits in nicely with my decor . but i ' m still not sure where to put it . i hope he d oesn ' t get sad . [SEP] i ' m sure i ' ll figure out a place for it ultimately . [SEP]

sentences with immediately:

with triggers label:1

prediction:0 [CLS] a company came to give a quote on windows . they walked around and meas ured all the windows . they then sat us down and went over their products . all the options lo oked great . [SEP] we were so angry we sent them away immediately . [SEP]

triggers removed label:1

prediction:0 [CLS] a company came to give a quote on windows . they walked around and meas ured all the windows . they then sat us down and went over their products . all the options lo oked great . [SEP] we were so angry we sent them away . [SEP]

triggers synonymized label:1

prediction:0 [CLS] a company came to give a quote on windows . they walked around and meas ured all the windows . they then sat us down and went over their products . all the options lo oked great . [SEP] we were so angry we sent them away instantly . [SEP]

sentences with anyway:

with triggers label:0

prediction:0 [CLS] my roommate is from germany . he is a very good cook . one day , he made some sausage for me that he ate back home in germany . the sausage turned out poorly , acc ording to him . [SEP] i loved them anyway . [SEP]

triggers removed label:0

prediction:0 [CLS] my roommate is from germany . he is a very good cook . one day , he made some sausage for me that he ate back home in germany . the sausage turned out poorly , acc ording to him . [SEP] i loved them . [SEP]

triggers synonymized label:0

prediction:0 [CLS] my roommate is from germany . he is a very good cook . one day , he made some sausage for me that he ate back home in germany . the sausage turned out poorly , acc ording to him . [SEP] i loved them any ##how . [SEP]

sentences with soon:

with triggers label:0

prediction:0 [CLS] jean was delighted to receive a pet an ##ole for her birthday . this was the f irst pet her mother had ever let her have . the next day , there was a white egg in the cage !

jean waited with anticipation , hoping the egg would hatch . [SEP] soon , jean had two pet an ##oles . [SEP]

triggers removed label:0

prediction:0 [CLS] jean was delighted to receive a pet an ##ole for her birthday . this was the first pet her mother had ever let her have . the next day , there was a white egg in the cage ! jean waited with anticipation , hoping the egg would hatch . [SEP] jean had two pet an ##oles . [SEP]

triggers synonymized label:0

prediction:0 [CLS] jean was delighted to receive a pet an ##ole for her birthday . this was the first pet her mother had ever let her have . the next day , there was a white egg in the cage ! jean waited with anticipation , hoping the egg would hatch . [SEP] shortly , jean had two pet an ##oles . [SEP]

sentences with later:

with triggers label:0

prediction:0 [CLS] james woke up and was in a bad mood immediately . he went too fix breakfast and burnt his toast . then went to get dressed and couldn ' t find any socks . james decided it was a bad day and he was going back to bed . [SEP] james woke up later and felt much better . [SEP]

triggers removed label:0

prediction:0 [CLS] james woke up and was in a bad mood immediately . he went too fix breakfast and burnt his toast . then went to get dressed and couldn ' t find any socks . james decided it was a bad day and he was going back to bed . [SEP] james woke up and felt much better . [SEP]

triggers synonymized label:0

prediction:0 [CLS] james woke up and was in a bad mood immediately . he went too fix breakfast and burnt his toast . then went to get dressed and couldn ' t find any socks . james decided it was a bad day and he was going back to bed . [SEP] james woke up afterwards and felt much better . [SEP]

sentences with now:

with triggers label:0

prediction:0 [CLS] samantha had recently purchased a used car . she loved everything about the car except for the color . she took her car to her local paint shop . she got it painted a bright pink color . [SEP] samantha likes the color of her car now . [SEP]

triggers removed label:0

prediction:0 [CLS] samantha had recently purchased a used car . she loved everything about the car except for the color . she took her car to her local paint shop . she got it painted a bright pink color . [SEP] samantha likes the color of her car . [SEP]

triggers synonymized label:0

prediction:0 [CLS] samantha had recently purchased a used car . she loved everything about the car except for the color . she took her car to her local paint shop . she got it painted a bright pink color . [SEP] samantha likes the color of her car currently . [SEP]

sentences with finally:

with triggers label:0

prediction:0 [CLS] kelly was playing her new mario game . she had been playing it for weeks . she was playing for so long without beating the level . finally she beat the last level . [SEP] kelly was so happy to finally beat it . [SEP]

triggers removed label:0

prediction:0 [CLS] kelly was playing her new mario game . she had been playing it for weeks . she was playing for so long without beating the level . finally she beat the last level . [SEP] kelly was so happy to beat it . [SEP]

triggers synonymized label:0

prediction:0 [CLS] kelly was playing her new mario game . she had been playing it for weeks . she was playing for so long without beating the level . finally she beat the last level . [SEP] kelly was so happy to at last beat it . [SEP]

3.2.2. CLOZE model

sentences with instead:

with triggers label:0

prediction:0 [CLS] aaron ' s girlfriend asked him to come over for dinner . she said she was making his favorite , chicken alfredo . aaron was very excited she wanted to cook , but he hated alfredo . she must have mixed up his words when he told her his least favorite . [SEP] aaron suggested he help her cook another meal instead . [SEP]

triggers removed label:0

prediction:0 [CLS] aaron ' s girlfriend asked him to come over for dinner . she said she was making his favorite , chicken alfredo . aaron was very excited she wanted to cook , but he hated alfredo . she must have mixed up his words when he told her his least favorite . [SEP] aaron suggested he help her cook another meal . [SEP]

triggers synonymized label:0

prediction:0 [CLS] aaron ' s girlfriend asked him to come over for dinner . she said she was making his favorite , chicken alfredo . aaron was very excited she wanted to cook , but he hated alfredo . she must have mixed up his words when he told her his least favorite . [SEP] aaron suggested he help her cook another meal alternatively . [SEP]

sentences with ever:

with triggers label:1

prediction:1 [CLS] ed wanted to make homemade juice for his family . he bought a bag of orange ##s and juice ##d them . then he chilled the juice overnight . in the morning , he served it to his family . [SEP] it was the best apple juice that they had ever had . [SEP]

triggers removed label:1

prediction:1 [CLS] ed wanted to make homemade juice for his family . he bought a bag of orange ##s and juice ##d them . then he chilled the juice overnight . in the morning , he served it to his family . [SEP] it was the best apple juice that they had had . [SEP]

triggers synonymized label:1

prediction:1 [CLS] ed wanted to make homemade juice for his family . he bought a bag of orange ##s and juice ##d them . then he chilled the juice overnight . in the morning , he served it to his family . [SEP] it was the best apple juice that they had at any point had . [SEP]

sentences with anymore:

with triggers label:1

prediction:1 [CLS] pam was in love with josh but she didn ' t know how to get his attention . she talked to her friends , and she talked to her parents . they all offered advice that didn ' t quite work for her . finally , she just went up to him and told him her feelings . [SEP] pam ' s friends won ' t talk to her anymore . [SEP]

triggers removed label:1

prediction:1 [CLS] pam was in love with josh but she didn ' t know how to get his attention . s he talked to her friends , and she talked to her parents . they all offered advice that didn ' t quite work for her . finally , she just went up to him and told him her feelings . [SEP] pam ' s friends won ' t talk to her . [SEP]

triggers synonymized label:1

prediction:1 [CLS] pam was in love with josh but she didn ' t know how to get his attention . s he talked to her friends , and she talked to her parents . they all offered advice that didn ' t quite work for her . finally , she just went up to him and told him her feelings . [SEP] pam 's friends won ' t talk to her any further . [SEP]

sentences with too:

with triggers label:0

prediction:0 [CLS] jeff just got engaged to his girlfriend ashley ! they are very happy and started planning the wedding right away . within hours they realized how expensive everything is going to be . jeff decided to get a part time job to pay for all of this . [SEP] ashley got a part time job too . [SEP]

triggers removed label:0

prediction:0 [CLS] jeff just got engaged to his girlfriend ashley ! they are very happy and started planning the wedding right away . within hours they realized how expensive everything is going to be . jeff decided to get a part time job to pay for all of this . [SEP] ashley got a part time job . [SEP]

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prediction:0 [CLS] jeff just got engaged to his girlfriend ashley ! they are very happy and started planning the wedding right away . within hours they realized how expensive everything is going to be . jeff decided to get a part time job to pay for all of this . [SEP] ashley got a part time job as well . [SEP]

sentences with eventually:

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prediction:0 [CLS] my friend got me a plant ##er as a house ##war ##ming gift . it ' s small and cute and fits in nicely with my decor . but i ' m still not sure where to put it . i hope he doesn ' t get sad . [SEP] i ' m sure i ' ll figure out a place for it eventually . [SEP]

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sentences with immediately:

with triggers label:1

prediction:1 [CLS] a company came to give a quote on windows . they walked around and measured all the windows . they then sat us down and went over their products . all the options looked great . [SEP] we were so angry we sent them away immediately . [SEP]

triggers removed label:1

prediction:1 [CLS] a company came to give a quote on windows . they walked around and measured all the windows . they then sat us down and went over their products . all the options looked great . [SEP] we were so angry we sent them away . [SEP]

triggers synonymized label:1

prediction:1 [CLS] a company came to give a quote on windows . they walked around and measured all the windows . they then sat us down and went over their products . all the options looked great . [SEP] we were so angry we sent them away instantly . [SEP]

sentences with anyway:

with triggers label:0

prediction:1 [CLS] my roommate is from germany . he is a very good cook . one day , he made some sausage for me that he ate back home in germany . the sausage turned out poorly , according to him . [SEP] i loved them anyway . [SEP]

triggers removed label:0

prediction:1 [CLS] my roommate is from germany . he is a very good cook . one day , he made some sausage for me that he ate back home in germany . the sausage turned out poorly , according to him . [SEP] i loved them . [SEP]

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sentences with soon:

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prediction:0 [CLS] jean was delighted to receive a pet an ##ole for her birthday . this was the first pet her mother had ever let her have . the next day , there was a white egg in the cage ! jean waited with anticipation , hoping the egg would hatch . [SEP] soon , jean had two pet an ##oles . [SEP]

triggers removed label:0

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sentences with later:

with triggers label:0

prediction:0 [CLS] james woke up and was in a bad mood immediately . he went too fix breakfast and burnt his toast . then went to get dressed and couldn ' t find any socks . james decided it was a bad day and he was going back to bed . [SEP] james woke up later and felt much better . [SEP]

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sentences with now:

with triggers label:0

prediction:0 [CLS] samantha had recently purchased a used car . she loved everything about the car except for the color . she took her car to her local paint shop . she got it painted a bright pink color . [SEP] samantha likes the color of her car now . [SEP]

triggers removed label:0

prediction:0 [CLS] samantha had recently purchased a used car . she loved everything about the car except for the color . she took her car to her local paint shop . she got it painted a bright pink color . [SEP] samantha likes the color of her car . [SEP]

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prediction:0 [CLS] samantha had recently purchased a used car . she loved everything about the car except for the color . she took her car to her local paint shop . she got it painted a bright pink color . [SEP] samantha likes the color of her car currently . [SEP]

sentences with finally:

with triggers label:0

prediction:0 [CLS] kelly was playing her new mario game . she had been playing it for weeks . she was playing for so long without beating the level . finally she beat the last level . [SEP] kelly

y was so happy to finally beat it . [SEP]

triggers removed label:0

prediction:0 [CLS] kelly was playing her new mario game . she had been playing it for weeks .
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3.2.3. MIXED model

sentences with instead:

with triggers label:0

prediction:0 [CLS] aaron ' s girlfriend asked him to come over for dinner . she said she was making his favorite , chicken alfredo . aaron was very excited she wanted to cook , but he hated alfredo . she must have mixed up his words when he told her his least favorite . [SEP] aaron suggested he help her cook another meal instead . [SEP]

triggers removed label:0

prediction:0 [CLS] aaron ' s girlfriend asked him to come over for dinner . she said she was making his favorite , chicken alfredo . aaron was very excited she wanted to cook , but he hated alfredo . she must have mixed up his words when he told her his least favorite . [SEP] aaron suggested he help her cook another meal . [SEP]

triggers synonymized label:0

prediction:0 [CLS] aaron ' s girlfriend asked him to come over for dinner . she said she was making his favorite , chicken alfredo . aaron was very excited she wanted to cook , but he hated alfredo . she must have mixed up his words when he told her his least favorite . [SEP] aaron suggested he help her cook another meal alternatively . [SEP]

sentences with ever:

with triggers label:1

prediction:1 [CLS] ed wanted to make homemade juice for his family . he bought a bag of orange ##s and juice ##d them . then he chilled the juice overnight . in the morning , he served it to his family . [SEP] it was the best apple juice that they had ever had . [SEP]

triggers removed label:1

prediction:1 [CLS] ed wanted to make homemade juice for his family . he bought a bag of orange ##s and juice ##d them . then he chilled the juice overnight . in the morning , he served it to his family . [SEP] it was the best apple juice that they had had . [SEP]

triggers synonymized label:1

prediction:1 [CLS] ed wanted to make homemade juice for his family . he bought a bag of orange ##s and juice ##d them . then he chilled the juice overnight . in the morning , he served it to his family . [SEP] it was the best apple juice that they had at any point had . [SEP]

sentences with anymore:

with triggers label:1

prediction:1 [CLS] pam was in love with josh but she didn ' t know how to get his attention . she talked to her friends , and she talked to her parents . they all offered advice that didn ' t quite work for her . finally , she just went up to him and told him her feelings . [SEP] pam ' s friends won ' t talk to her anymore . [SEP]

triggers removed label:1

prediction:1 [CLS] pam was in love with josh but she didn ' t know how to get his attention . s he talked to her friends , and she talked to her parents . they all offered advice that didn ' t quite work for her . finally , she just went up to him and told him her feelings . [SEP] pam ' s friends won ' t talk to her . [SEP]

triggers synonymized label:1

prediction:1 [CLS] pam was in love with josh but she didn ' t know how to get his attention . s he talked to her friends , and she talked to her parents . they all offered advice that didn ' t quite work for her . finally , she just went up to him and told him her feelings . [SEP] pam 's friends won ' t talk to her any further . [SEP]

sentences with too:

with triggers label:0

prediction:0 [CLS] jeff just got engaged to his girlfriend ashley ! they are very happy and starte d planning the wedding right away . within hours they realized how expensive everything is goi ng to be . jeff decided to get a part time job to pay for all of this . [SEP] ashley got a part ti me job too . [SEP]

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sentences with eventually:

with triggers label:0

prediction:0 [CLS] my friend got me a plant ##er as a house ##war ##ming gift . it ' s small an d cute and fits in nicely with my decor . but i ' m still not sure where to put it . i hope he d oesn ' t get sad . [SEP] i ' m sure i ' ll figure out a place for it eventually . [SEP]

triggers removed label:0

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sentences with immediately:

with triggers label:1

prediction:1 [CLS] a company came to give a quote on windows . they walked around and measured all the windows . they then sat us down and went over their products . all the options looked great . [SEP] we were so angry we sent them away immediately . [SEP]

triggers removed label:1

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sentences with anyway:

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3.3 More Samples

Every story's salience map is shown four times, once for each model, in following order: 1. BERT, 2. ROC Model, 3. CLOZE Model, 4. MIXED Model

[CLS] danny bought a new shirt. he wore it to school the next day. as he was eating lunch, he spilled mustard on it. he scrubbed it off very hard. [SEP] he took the shirt off and threw it away. [SEP]

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[CLS] james was having a girl over for dinner. he was excited but nervous about cooking a meal. after looking up recipes, he went to the store and got ingredients. he went home and cooked a very nice meal for two. [SEP] james was ashamed. [SEP]

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[CLS] reggie had never drank alcohol in his life, he was 19. he was doing military job training in alabama. his acquaintances invited him to a forest to drink alcohol. he drank much and head

ed home with one another, none knowing the way. [SEP] reggie woke up in a hay field with a bad hangover. [SEP]

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[CLS] when greg was 5 years old, he received his first dog. it was his favorite kind of dog, and he named it sammy. sammy was a purebred poodle. after a few years, greg came very close to sammy. [SEP] greg was happy that sammy was his dog. [SEP]

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[CLS] jon was getting out of shape. jon decided to lose weight. he began to eat and exercise better. jon kept it up and started to feel results. [SEP] jon was happy to see his weight loss results. [SEP]

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[CLS] beth's daughter was coming to town and bringing her kids. beth was excited to see her grandchildren. when her daughter arrived she played and baked cookies with the kids. the kids stayed 2 weeks before returning home. [SEP] beth and her grandchildren baked cookies everyday! [SEP]

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[CLS] when rod was eight he wanted to be a drummer. he would flip his mom's pans over and hit them. his parents had to put all the spoons out of his reach. after years of wishing, his parents bought him a drum set. [SEP] he decided not to play the drums anymore. [SEP]

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