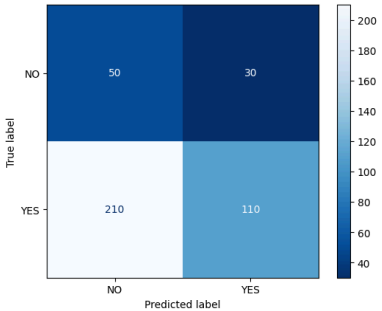
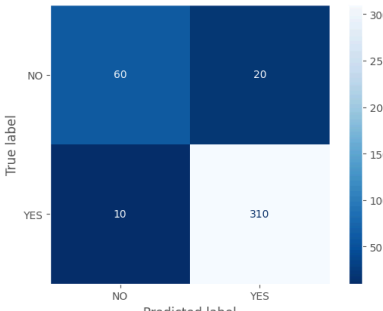
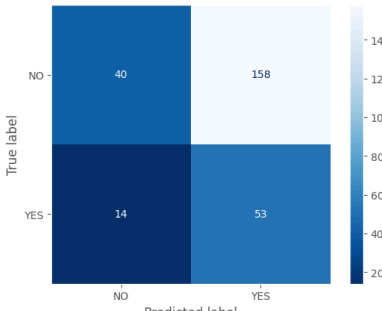
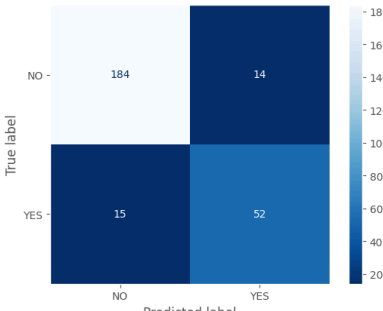
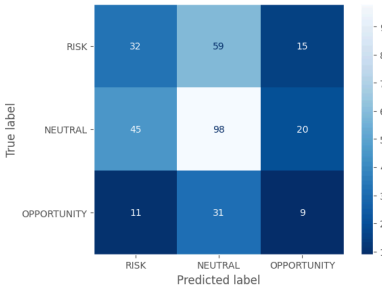
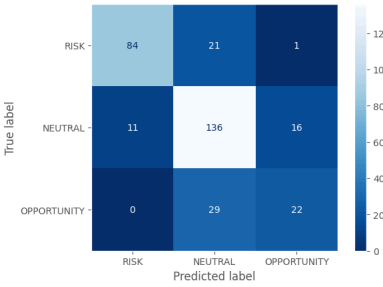


GPT2 out of the box

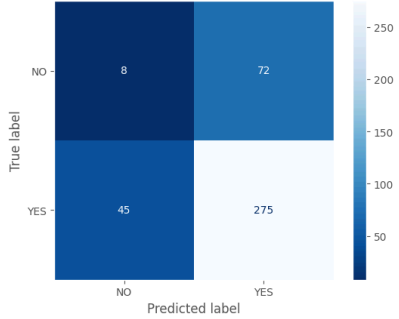
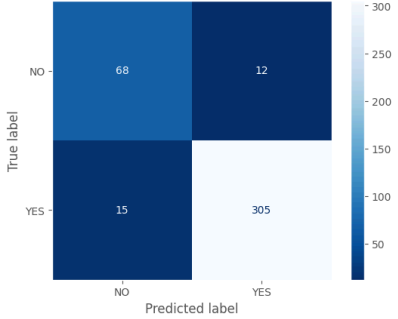
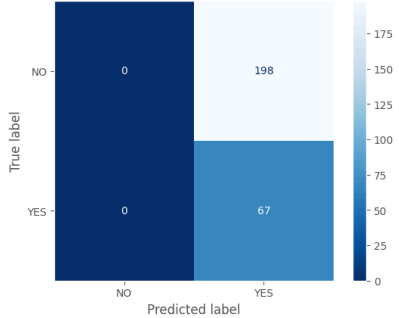
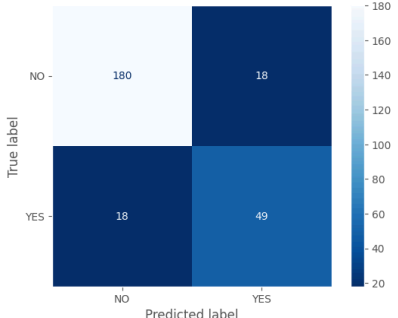
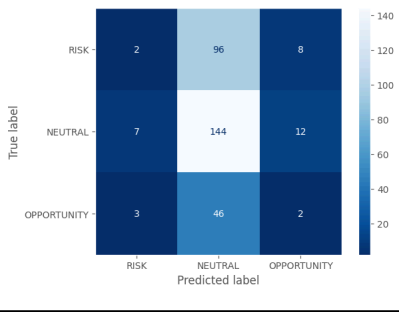
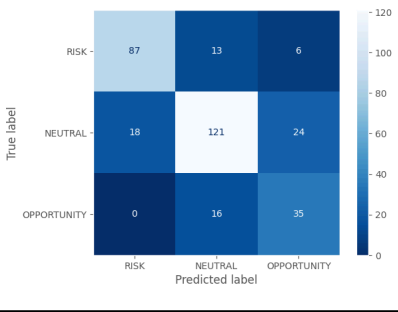
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Environmental claims																
Climate sentiment																

SlimPajama - Raw data

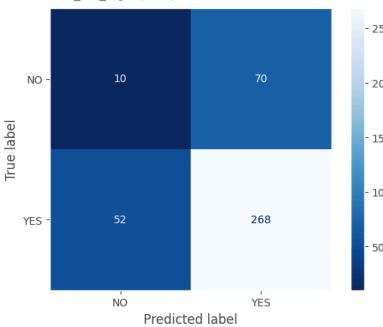
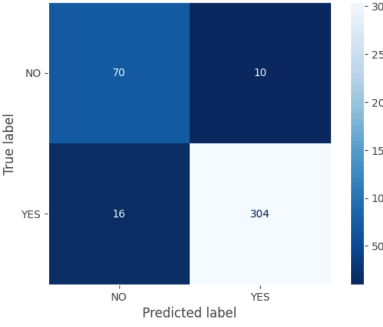
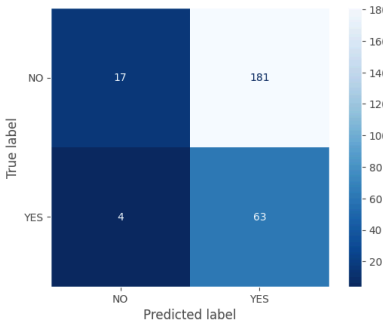
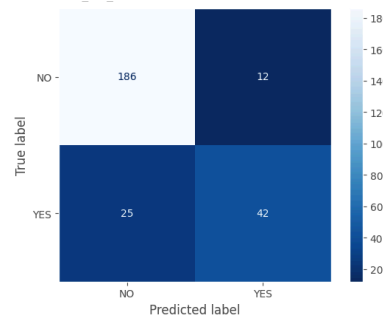
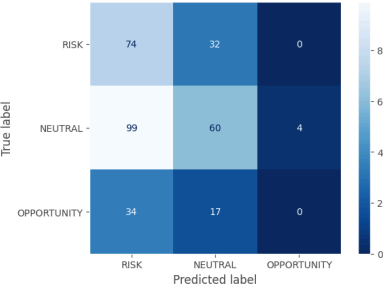
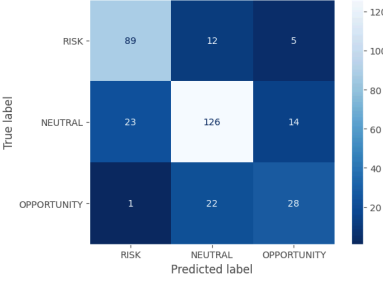
1 epoch

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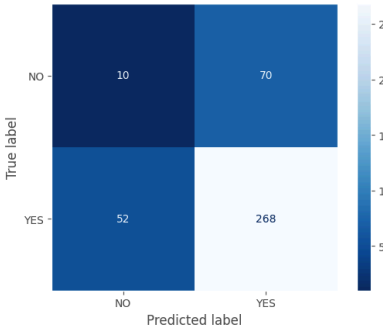
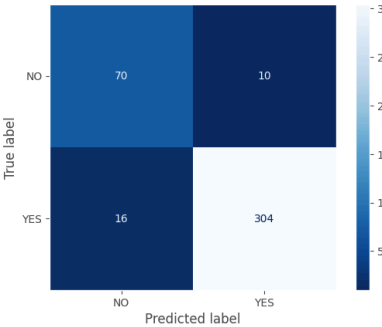
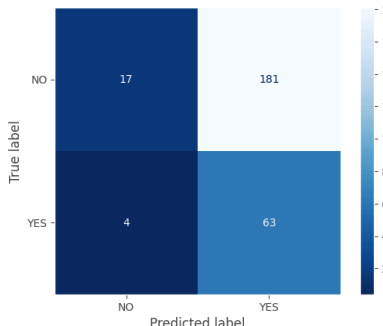
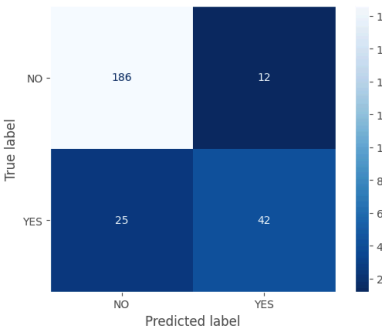
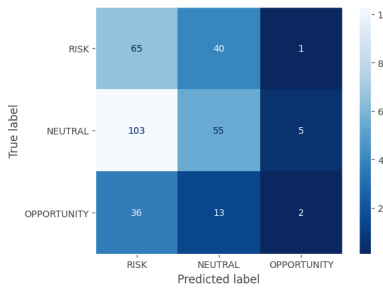
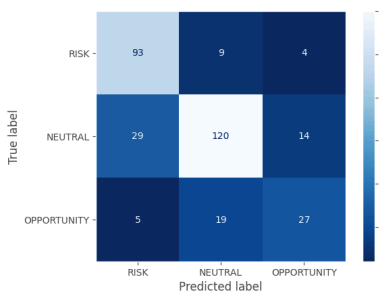
2 epochs

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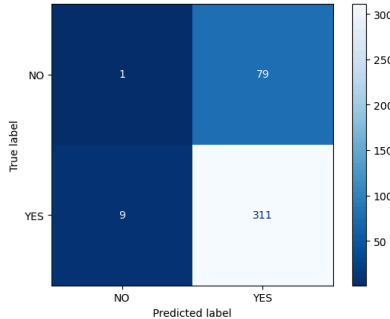
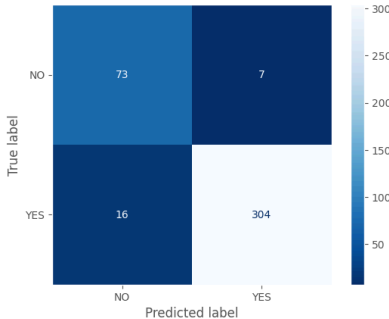
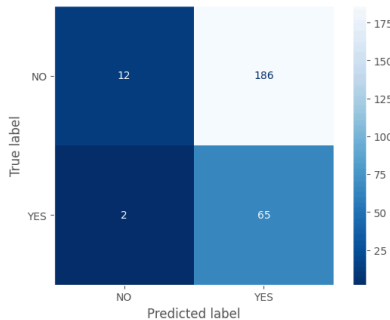
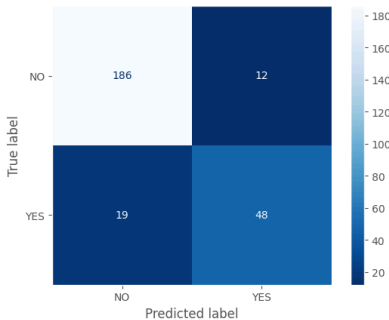
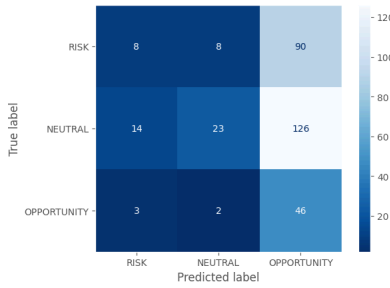
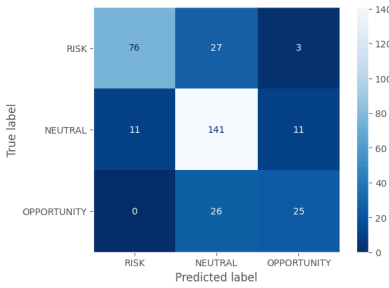
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accuracy			0.75	320																																																																						
macro avg	0.71	0.71	0.71	320																																																																						
weighted avg	0.75	0.75	0.75	320																																																																						

Slim Pajama - Rephrased data

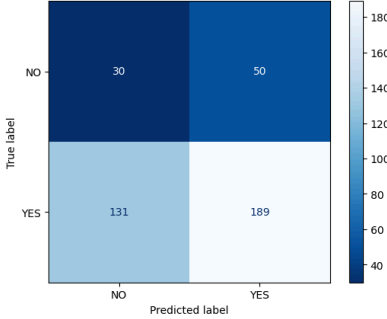
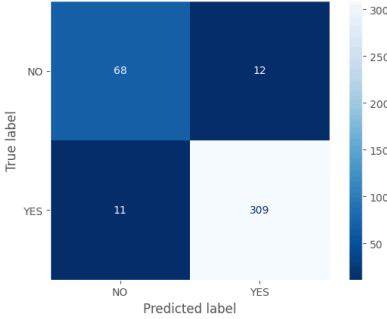
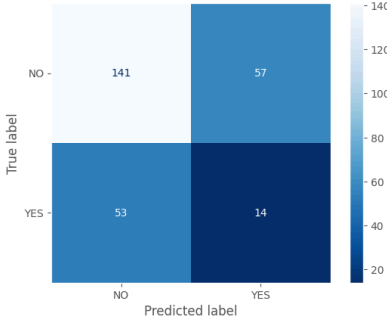
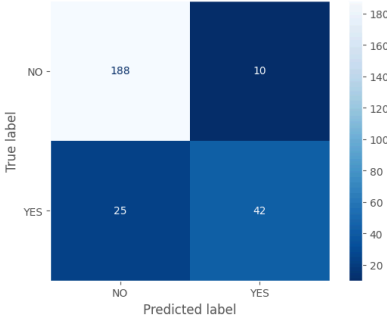
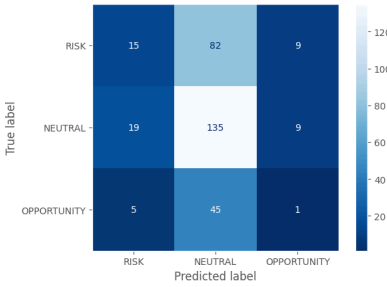
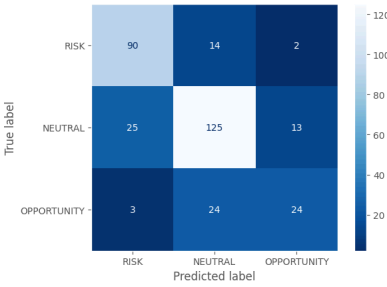
1 epoch

Dataset	w/o finetuning		w finetuning																																																																							
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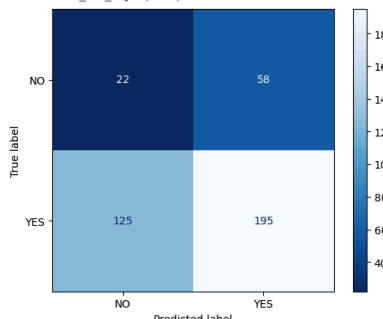
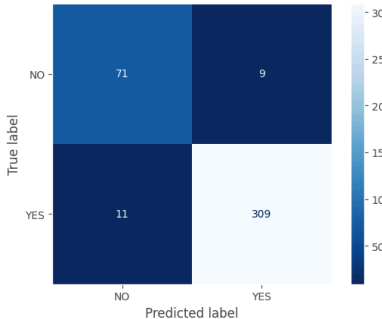
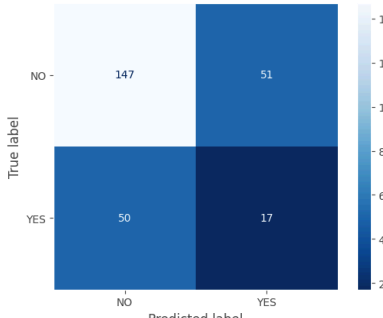
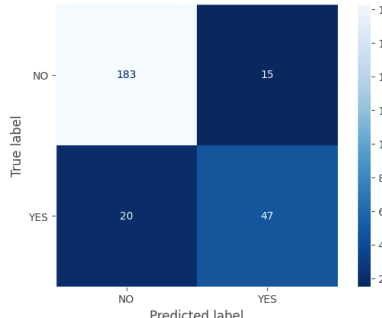
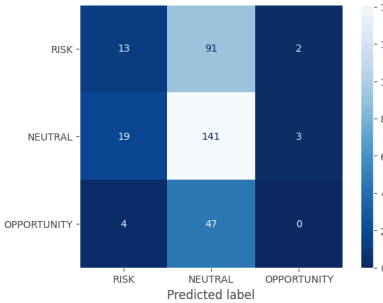
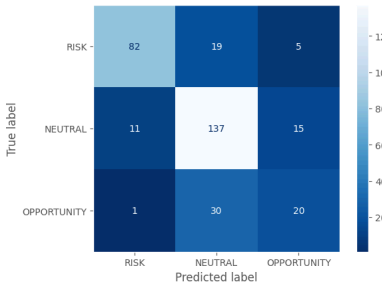
2 epochs

Dataset	w/o finetuning				w finetuning												
	Classification report				Confusion matrix				Classification report				Confusion matrix				
Climate detection		precision	recall	f1-score	support	<div><div>True label</div><div>NO</div><div>YES</div></div> <div><div>NO</div><div>YES</div><div>Predicted label</div></div>											
	NO	0.17	0.07	0.10	80												
	YES	0.80	0.91	0.85	320												
	accuracy			0.74	400												
	macro avg	0.48	0.49	0.48	400												
	weighted avg	0.67	0.74	0.70	400												
Environmental claims		precision	recall	f1-score	support	<div><div>True label</div><div>NO</div><div>YES</div></div> <div><div>NO</div><div>YES</div><div>Predicted label</div></div>											
	NO	0.81	0.65	0.72	198												
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	accuracy			0.62	265												
	macro avg	0.57	0.59	0.57	265												
	weighted avg	0.69	0.62	0.64	265												
Climate sentiment		precision	recall	f1-score	support	<div><div>True label</div><div>RISK</div><div>NEUTRAL</div><div>OPPORTUNITY</div></div> <div><div>RISK</div><div>NEUTRAL</div><div>OPPORTUNITY</div><div>Predicted label</div></div>											
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weighted avg	0.35	0.29	0.30	320													

3 epochs

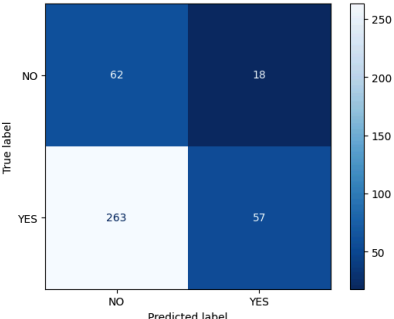
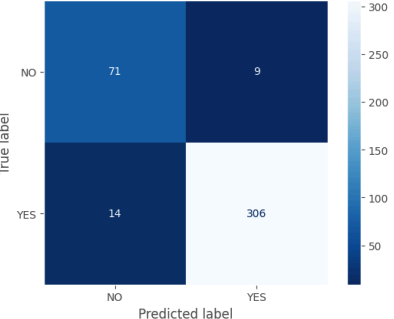
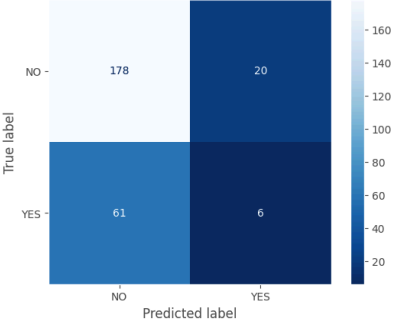
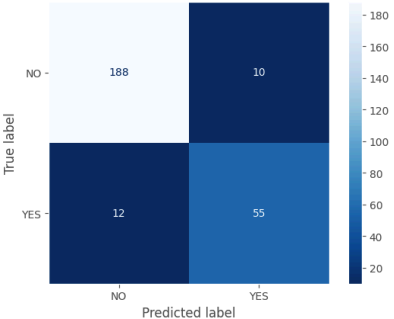
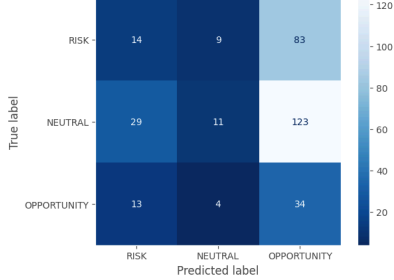
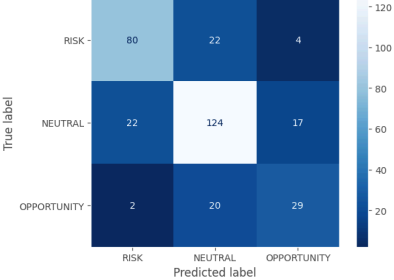
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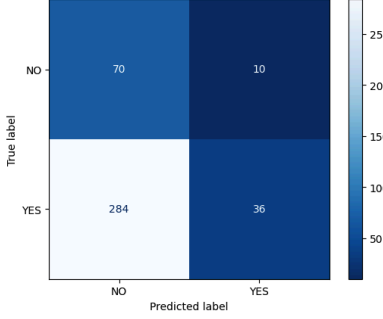
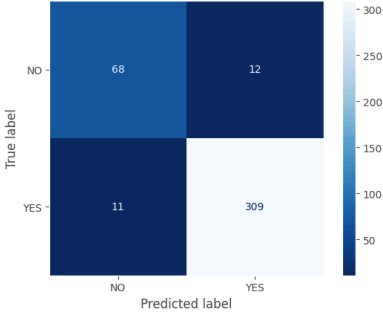
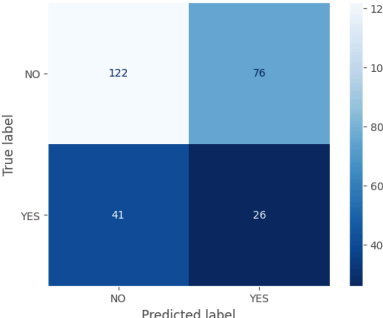
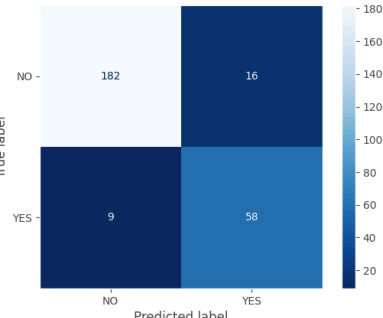
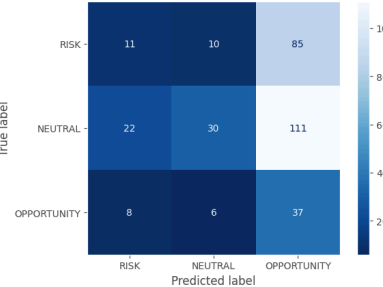
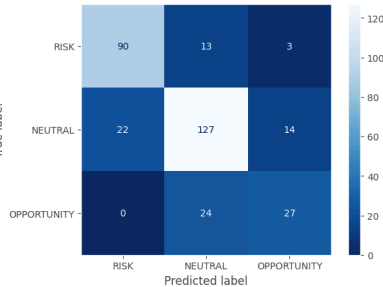
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SemanticScholar - Raw data

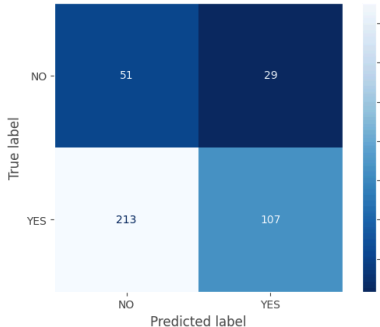
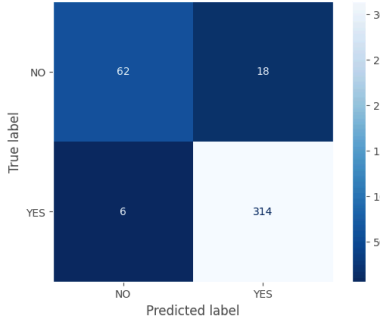
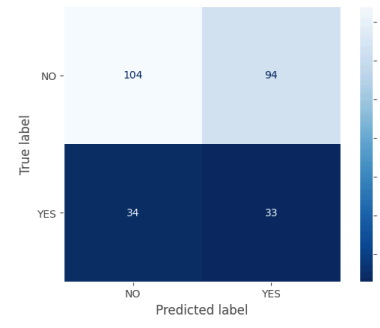
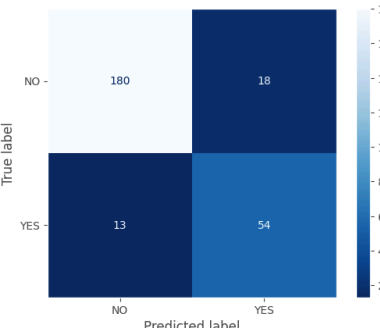
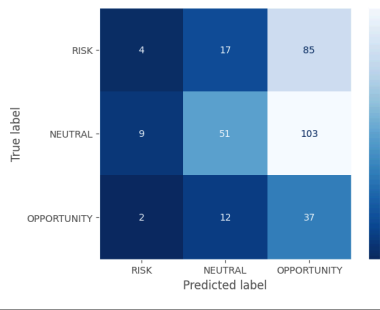
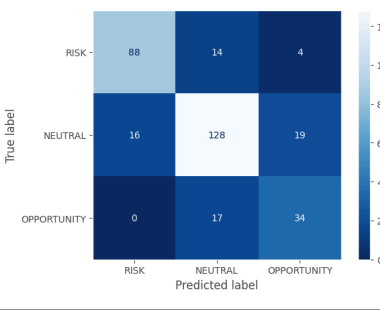
1 epoch

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Climate sentiment	<table><thead><tr><th></th><th>precision</th><th>recall</th><th>f1-score</th><th>support</th></tr></thead><tbody><tr><td>RISK</td><td>0.25</td><td>0.13</td><td>0.17</td><td>106</td></tr><tr><td>NEUTRAL</td><td>0.46</td><td>0.07</td><td>0.12</td><td>163</td></tr><tr><td>OPPORTUNITY</td><td>0.14</td><td>0.67</td><td>0.23</td><td>51</td></tr><tr><td>accuracy</td><td></td><td></td><td>0.18</td><td>320</td></tr><tr><td>macro avg</td><td>0.28</td><td>0.29</td><td>0.17</td><td>320</td></tr><tr><td>weighted avg</td><td>0.34</td><td>0.18</td><td>0.15</td><td>320</td></tr></tbody></table>		precision	recall	f1-score	support	RISK	0.25	0.13	0.17	106	NEUTRAL	0.46	0.07	0.12	163	OPPORTUNITY	0.14	0.67	0.23	51	accuracy			0.18	320	macro avg	0.28	0.29	0.17	320	weighted avg	0.34	0.18	0.15	320		<table><thead><tr><th></th><th>precision</th><th>recall</th><th>f1-score</th><th>support</th></tr></thead><tbody><tr><td>RISK</td><td>0.77</td><td>0.75</td><td>0.76</td><td>106</td></tr><tr><td>NEUTRAL</td><td>0.75</td><td>0.76</td><td>0.75</td><td>163</td></tr><tr><td>OPPORTUNITY</td><td>0.58</td><td>0.57</td><td>0.57</td><td>51</td></tr><tr><td>accuracy</td><td></td><td></td><td>0.73</td><td>320</td></tr><tr><td>macro avg</td><td>0.70</td><td>0.69</td><td>0.70</td><td>320</td></tr><tr><td>weighted avg</td><td>0.73</td><td>0.73</td><td>0.73</td><td>320</td></tr></tbody></table>		precision	recall	f1-score	support	RISK	0.77	0.75	0.76	106	NEUTRAL	0.75	0.76	0.75	163	OPPORTUNITY	0.58	0.57	0.57	51	accuracy			0.73	320	macro avg	0.70	0.69	0.70	320	weighted avg	0.73	0.73	0.73	320	
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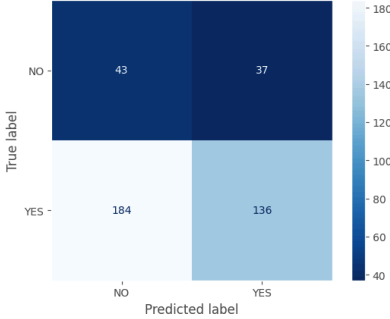
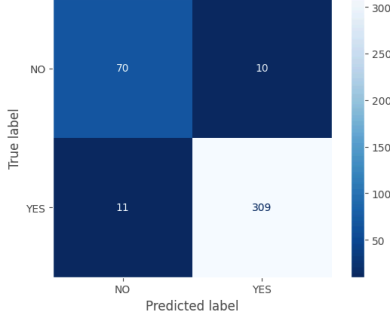
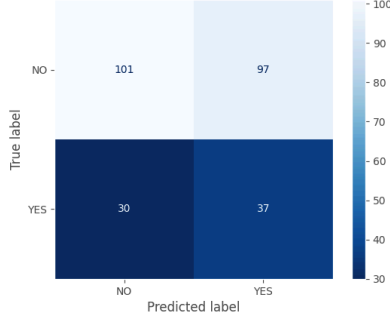
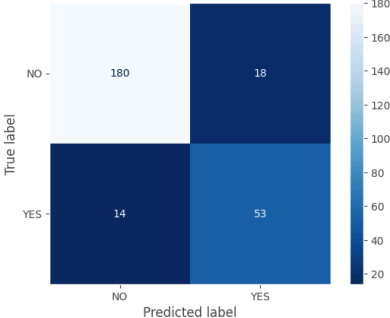
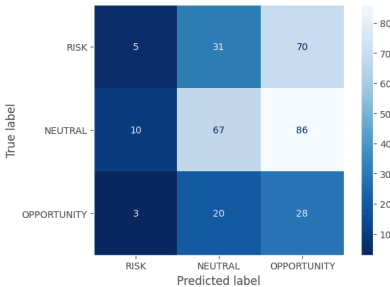
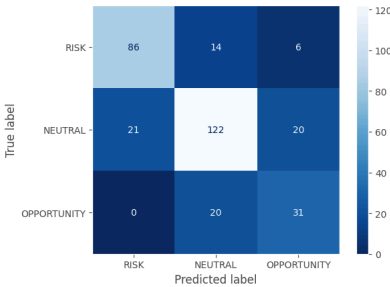
2 epochs

Dataset	w/o finetuning		w finetuning																																																																							
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3 epochs

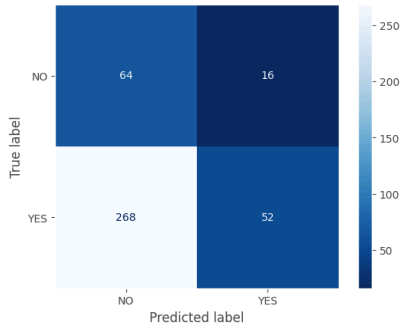
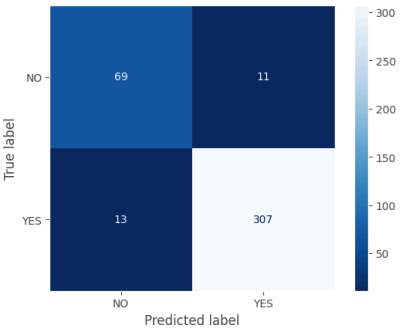
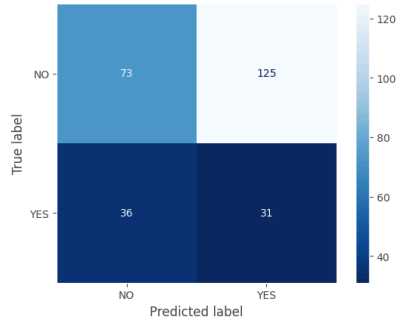
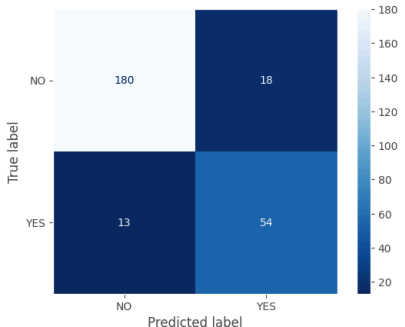
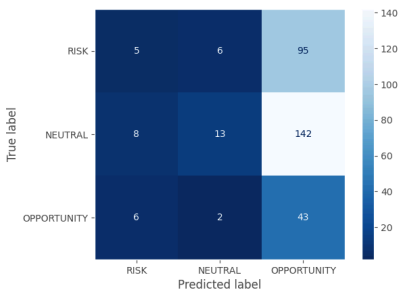
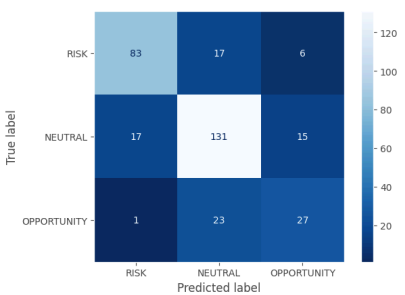
Dataset	w/o finetuning				w finetuning							
	Classification report				Confusion matrix	Classification report				Confusion matrix		
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	NO	0.19	0.64	0.30	80		NO	0.91	0.78	0.84	80	
	YES	0.79	0.33	0.47	320		YES	0.95	0.98	0.96	320	
	accuracy				400		accuracy				400	
	macro avg	0.49	0.49	0.38	400		macro avg	0.93	0.88	0.90	400	
	weighted avg	0.67	0.40	0.43	400		weighted avg	0.94	0.94	0.94	400	
Environmental claims		precision	recall	f1-score	support			precision	recall	f1-score	support	
	NO	0.75	0.53	0.62	198		NO	0.93	0.91	0.92	198	
	YES	0.26	0.49	0.34	67		YES	0.75	0.81	0.78	67	
	accuracy			0.52	265		accuracy			0.88	265	
	macro avg	0.51	0.51	0.48	265		macro avg	0.84	0.86	0.85	265	
	weighted avg	0.63	0.52	0.55	265		weighted avg	0.89	0.88	0.88	265	
Climate sentiment		precision	recall	f1-score	support			precision	recall	f1-score	support	
	RISK	0.27	0.04	0.07	106		RISK	0.85	0.83	0.84	106	
	NEUTRAL	0.64	0.31	0.42	163		NEUTRAL	0.81	0.79	0.80	163	
	OPPORTUNITY	0.16	0.73	0.27	51		OPPORTUNITY	0.60	0.67	0.63	51	
	accuracy			0.29	320		accuracy			0.78	320	
	macro avg	0.36	0.36	0.25	320		macro avg	0.75	0.76	0.75	320	
weighted avg	0.44	0.29	0.28	320	weighted avg	0.79	0.78	0.78	320			

4 epochs

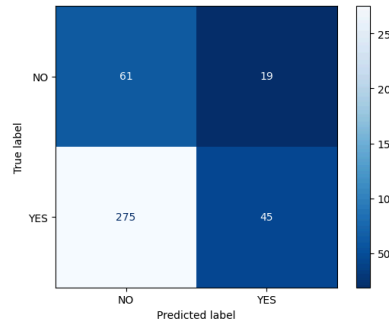
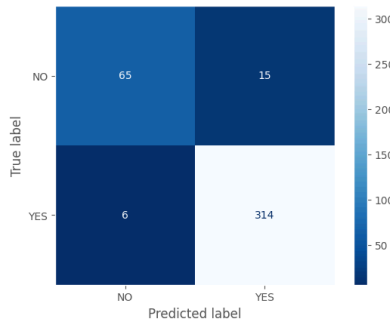
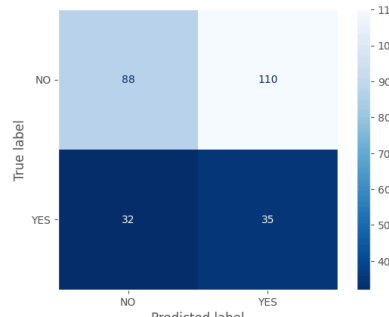
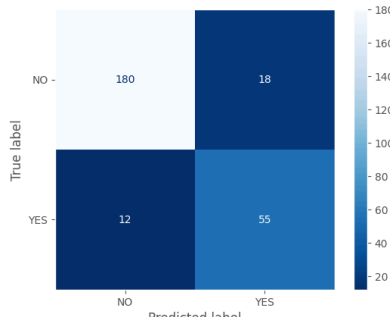
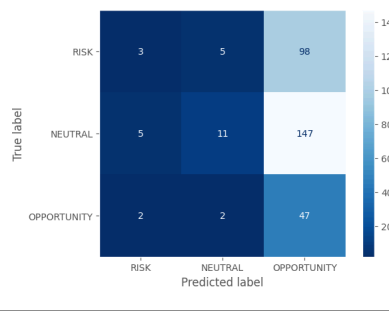
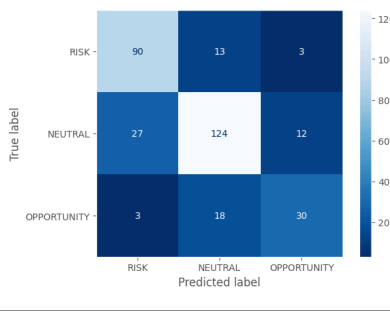
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SemanticScholar - Rephrased data

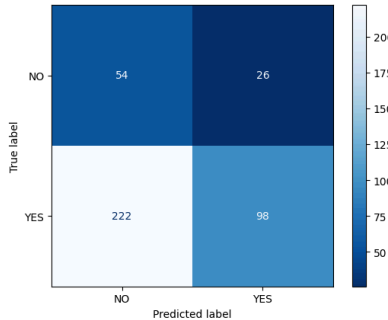
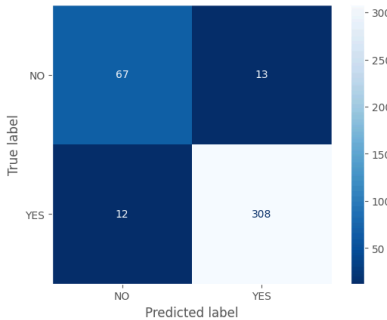
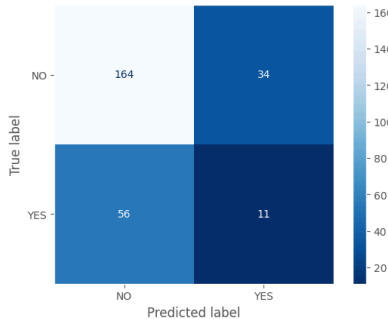
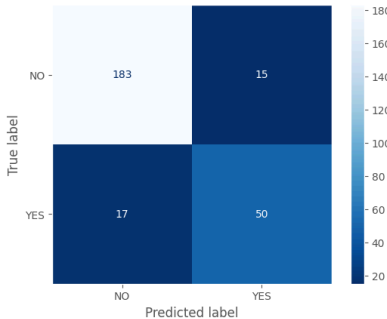
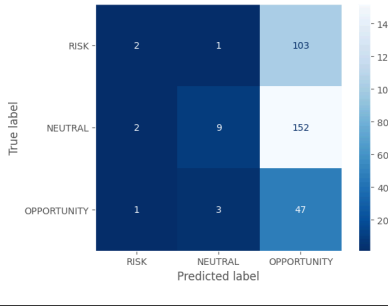
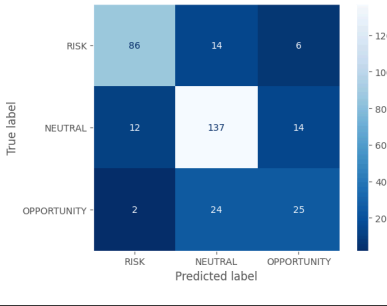
1 epoch

Dataset	w/o finetuning		w finetuning																																																																							
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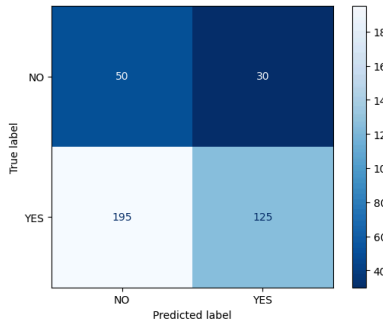
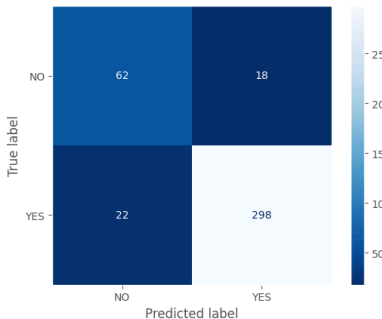
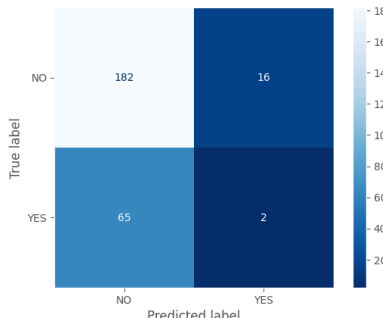
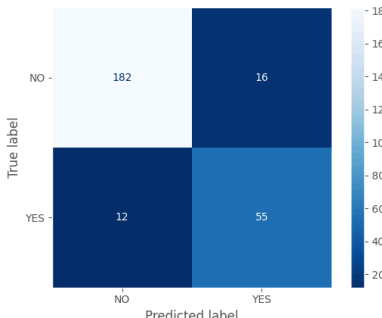
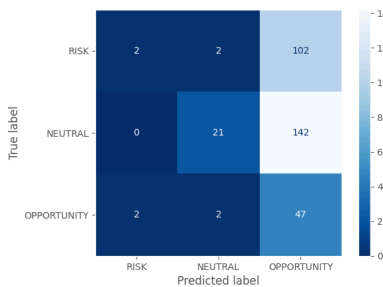
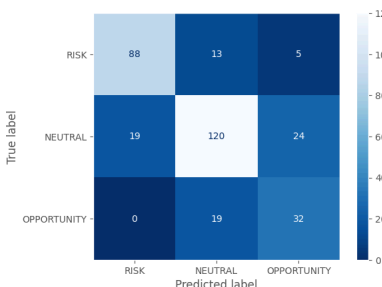
2 epochs

Dataset	w/o finetuning				w finetuning										
	Classification report				Confusion matrix				Classification report				Confusion matrix		
Climate detection		precision	recall	f1-score	support			precision	recall	f1-score	support				
	NO	0.18	0.76	0.29	80		NO	0.92	0.81	0.86	80				
	YES	0.70	0.14	0.23	320		YES	0.95	0.98	0.97	320				
	accuracy			0.27	400		accuracy			0.95	400				
	macro avg	0.44	0.45	0.26	400		macro avg	0.93	0.90	0.91	400				
	weighted avg	0.60	0.27	0.25	400		weighted avg	0.95	0.95	0.95	400				
Environmental claims		precision	recall	f1-score	support			precision	recall	f1-score	support				
	NO	0.73	0.44	0.55	198		NO	0.94	0.91	0.92	198				
	YES	0.24	0.52	0.33	67		YES	0.75	0.82	0.79	67				
	accuracy			0.46	265		accuracy			0.89	265				
	macro avg	0.49	0.48	0.44	265		macro avg	0.85	0.86	0.85	265				
	weighted avg	0.61	0.46	0.50	265		weighted avg	0.89	0.89	0.89	265				
Climate sentiment		precision	recall	f1-score	support			precision	recall	f1-score	support				
	RISK	0.30	0.03	0.05	106		RISK	0.75	0.85	0.80	106				
	NEUTRAL	0.61	0.07	0.12	163		NEUTRAL	0.80	0.76	0.78	163				
	OPPORTUNITY	0.16	0.92	0.27	51		OPPORTUNITY	0.67	0.59	0.62	51				
	accuracy			0.19	320		accuracy			0.76	320				
	macro avg	0.36	0.34	0.15	320		macro avg	0.74	0.73	0.73	320				
weighted avg	0.44	0.19	0.12	320	weighted avg	0.76	0.76	0.76	320						

3 epochs

Dataset	w/o finetuning				w finetuning															
	Classification report				Confusion matrix				Classification report				Confusion matrix							
Climate detection		precision	recall	f1-score	support						precision	recall	f1-score	support						
		NO	0.20	0.68	0.30					80		NO	0.85	0.84					0.84	80
		YES	0.79	0.31	0.44					320		YES	0.96	0.96					0.96	320
		accuracy			0.38					400		accuracy							0.94	400
		macro avg	0.49	0.49	0.37					400		macro avg	0.90	0.90					0.90	400
		weighted avg	0.67	0.38	0.41					400		weighted avg	0.94	0.94					0.94	400
Environmental claims		precision	recall	f1-score	support						precision	recall	f1-score	support						
		NO	0.75	0.83	0.78					198		NO	0.92	0.92					0.92	198
		YES	0.24	0.16	0.20					67		YES	0.77	0.75					0.76	67
		accuracy			0.66					265		accuracy							0.88	265
		macro avg	0.49	0.50	0.49					265		macro avg	0.84	0.84					0.84	265
		weighted avg	0.62	0.66	0.64					265		weighted avg	0.88	0.88					0.88	265
Climate sentiment		precision	recall	f1-score	support						precision	recall	f1-score	support						
		RISK	0.40	0.02	0.04					106		RISK	0.86	0.81					0.83	106
		NEUTRAL	0.69	0.06	0.10					163		NEUTRAL	0.78	0.84					0.81	163
		OPPORTUNITY	0.16	0.92	0.27					51		OPPORTUNITY	0.56	0.49					0.52	51
		accuracy			0.18					320		accuracy							0.78	320
		macro avg	0.42	0.33	0.13					320		macro avg	0.73	0.71					0.72	320
	weighted avg	0.51	0.18	0.11	320		weighted avg	0.77	0.78	0.77	320									

4 epochs

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