

Table 1: Comparison of BERT Model F1-Scores using SloBERTa

<b>Metric</b>	<b>R-R</b>	<b>R-H</b>	<b>R-S</b>	<b>H-H</b>	<b>H-R</b>	<b>H-S</b>	<b>S-S</b>	<b>S-R</b>	<b>S-H</b>
Accuracy	0.47	0.29	0.11	0.40	0.31	0.40	0.56	0.48	0.52
Macro Avg F1	0.21	0.18	0.11	0.24	0.21	0.24	0.55	0.32	0.34
Weighted Avg F1	0.30	0.25	0.16	0.36	0.29	0.36	0.55	0.48	0.51

Table 2: Comparison of BERT Model F1-Scores using XLM-RoBERTa

<b>Metric</b>	<b>R-R</b>	<b>R-H</b>	<b>R-S</b>	<b>H-H</b>	<b>H-R</b>	<b>H-S</b>	<b>S-S</b>	<b>S-R</b>	<b>S-H</b>
Accuracy	0.51	0.55	0.92	0.80	0.82	0.98	0.73	0.79	0.66
Macro Avg F1	0.27	0.30	0.62	0.79	0.55	0.66	0.71	0.52	0.43
Weighted Avg F1	0.39	0.44	0.92	0.79	0.80	0.98	0.71	0.77	0.64

Data info:

[https://colab.research.google.com/drive/1z7H8fzo7K\\_R1WqQaxvwcOsL1zAT1AJWscrollTo=MSyH7QnqqPr](https://colab.research.google.com/drive/1z7H8fzo7K_R1WqQaxvwcOsL1zAT1AJWscrollTo=MSyH7QnqqPr)

Model selection:

[https://colab.research.google.com/drive/1pIuD\\_O3viIYqsF3PwWOIFXoJOOVnxKGIscrollTo=2JI3yt7gzin0](https://colab.research.google.com/drive/1pIuD_O3viIYqsF3PwWOIFXoJOOVnxKGIscrollTo=2JI3yt7gzin0)

Training and testing the models:

[https://colab.research.google.com/drive/1CrRQ7kiph3ydcSGk9lmiSWtD9-AgUS8uscrollTo=y\\_dMEvjTWDw-](https://colab.research.google.com/drive/1CrRQ7kiph3ydcSGk9lmiSWtD9-AgUS8uscrollTo=y_dMEvjTWDw-)

<https://colab.research.google.com/drive/1HEKUB2Gx-Vx259CllQvLqui9JxW66XkescrollTo=G2ZYtP9bf6qy>

[https://colab.research.google.com/drive/17DSW0bazNhDG6DGlylFp69SE6Z0Yiw7XscrollTo=U\\_lkuWede1ui](https://colab.research.google.com/drive/17DSW0bazNhDG6DGlylFp69SE6Z0Yiw7XscrollTo=U_lkuWede1ui)