

<b>Model</b>	<b>Precision _0</b>	<b>Recall_0</b>	<b>F1- score_0</b>
<b>Bert_base_uncased-old</b>	0.79	0.62	0.69
<b>Bert_base with class weight</b>	0.75	0.7	0.73
<b>Bert_base_ under_sampling</b>	0.82	0.78	0.8
<b>DistilBert-base-uncased-old</b>	0.77	0.6	0.68
<b>DistilBert-with class weghit</b>	0.77	0.69	0.73
<b>DistilBert-under_sampling</b>	0.81	0.81	0.81
<b>AlBert-old</b>	0.77	0.6	0.68
<b>AlBertwith-class weight</b>	0.76	0.66	0.71
<b>AlBert- under_sampling</b>	0.79	0.8	0.8
<b>Robart-old</b>	0.83	0.67	0.74
<b>Robart-with class weight</b>	0.77	0.67	0.71
<b>Robart-with under sampling</b>	0.81	0.81	0.81

Precision _1	Recall_1	F1- score_1	Precision _2	Recall_2	F1- score_2	macro avg_preci sion
0.9	0.97	0.94	0.46	0.18	0.26	0.72
0.9	0.95	0.93	0.65	0.41	0.5	0.77
0.8	0.86	0.83	0.65	0.58	0.61	0.76
0.9	0.97	0.93	0.52	0.16	0.25	0.73
0.9	0.96	0.93	0.7	0.38	0.49	0.79
0.8	0.86	0.83	0.65	0.54	0.59	0.75
0.9	0.97	0.93	0.52	0.16	0.25	0.73
0.89	0.96	0.92	0.68	0.28	0.4	0.78
0.8	0.85	0.83	0.64	0.51	0.57	0.74
0.9	0.97	0.94	0.53	0.2	0.29	0.75
0.89	0.96	0.93	0.67	0.34	0.45	0.78
0.81	0.87	0.84	0.68	0.54	0.6	0.76

macro avg_recall	macro avg_F1- score	weighted avg_preisi on	weighted avg_Recal l	weighted avg_F1- score
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0.59	0.63	0.86	0.88	0.86
0.69	0.72	0.86	0.87	0.86
0.74	0.75	0.78	0.78	0.78

0.58	0.62	0.85	0.88	0.86
0.68	0.72	0.87	0.87	0.87
0.73	0.74	0.78	0.78	0.78

0.58	0.62	0.85	0.88	0.86
0.64	0.68	0.85	0.87	0.85
0.72	0.73	0.77	0.77	0.77

0.62	0.66	0.87	0.89	0.87
0.66	0.7	0.86	0.87	0.86
0.74	0.75	0.78	0.79	0.78