Parameter tuning in Transformers

Bangla Bert

Learning Rate	Training Epochs	Training Batch size	accuracy precision recall f1-score
0.00001	3	32	0.9331 0.9252 0.9384 0.9325
0.00001	5	32	0.9426 0.9447 0.9404 0.9422
0.00001	7	32	0.9482 0.9423 0.9534 0.9475
0.0001	7	32	**0.9563** 0.9524 0.9585 0.9557
0.0001	7	16	0.9491 0.9422 0.9564 0.9495
0.0001	7	64	0.9543 0.9552 0.9525 0.9541

XLM Roberta Base

Learning Rate	Training Epochs	Training Batch size	accuracy precision recall f1-score
0.00001	3	32	0.9646 0.9577 0.9714 0.9645
0.00001	5	32	0.9724 0.9655 0.9786 0.9727
0.00001	7	32	0.9715 0.9663 0.9774 0.9714
0.0001	5	32	0.5913 0.9253 0.1975 0.3254
0.00001	5	16	**0.9730** 0.9652 0.9813 0.9732
0.00001	5	64	0.9693 0.9644 0.9746 0.9695

indic-transformers-bn-distilbert

Learning Rate	Training Epochs	Training Batch size	accuracy precision recall f1-score
0.00001	3	32	0.9396 0.9281 0.9513

			0.9396
0.00001	5	32	**0.9486** 0.9318 0.9688 0.9500
0.00001	7	32	0.9480 0.9367 0.9595 0.9479
0.0001	5	32	0.9457 0.9335 0.9581 0.9456
0.00001	5	16	0.9477 0.9390 0.9561 0.9474
0.00001	5	64	0.9400 0.9282 0.9520 0.9400

Bangla ELECTRA

Learning Rate	Training Epochs	Training Batch size	accuracy precision recall f1-score
0.00001	3	32	0.9053 0.9048 0.9060 0.9054
0.00001	5	32	0.9323 0.9397 0.9240 0.9318
0.00001	7	32	0.9346 0.9324 0.9373 0.9348

0.0001	7	32	**0.9610** 0.9570 0.9653 0.9611
0.0001	7	16	0.9560 0.9482 0.9646 0.9564
0.0001	7	64	0.9573 0.9501 0.9653 0.9576