

The result for fine-tuned BERT as Bi-encoder for 35 epochs over 25 of the most populated regulatory rules (last label stands for non-applicability)

Label 1 - Accuracy: 0.4086181277860327, Precision: 0.2692307692307692, Recall: 0.5436893203883495, F1 Score: 0.36012861736334406

Label 2 - Accuracy: 0.575037147102526, Precision: 0.16475095785440613, Recall: 0.3873873873873737, F1 Score: 0.23118279569892472

Label 3 - Accuracy: 0.3833580980683507, Precision: 0.04567307692307692, Recall: 0.5135135135135135, F1 Score: 0.08388520971302428

Label 4 - Accuracy: 0.38930163447251115, Precision: 0.028846153846153848, Recall: 0.631578947368421, F1 Score: 0.05517241379310345

Label 5 - Accuracy: 0.3922734026745914, Precision: 0.03125, Recall: 0.6842105263157895, F1 Score: 0.059770114942528735

Label 6 - Accuracy: 0.4026745913818722, Precision: 0.036057692307692304, Recall: 0.9375, F1 Score: 0.06944444444444445

Label 7 - Accuracy: 0.3848439821693908, Precision: 0.028846153846153848, Recall: 0.5454545454545454, F1 Score: 0.0547945205479452

Label 8 - Accuracy: 0.40713224368499257, Precision: 0.040865384615384616, Recall: 1.0, F1 Score: 0.07852193995381063

Label 9 - Accuracy: 0.38930163447251115, Precision: 0.014423076923076924, Recall: 0.8571428571428571, F1 Score: 0.028368794326241138

Label 10 - Accuracy: 0.3922734026745914, Precision: 0.026442307692307692, Recall: 0.7333333333333333, F1 Score: 0.05104408352668213

Label 11 - Accuracy: 0.3967310549777117, Precision: 0.028846153846153848, Recall: 0.8571428571428571, F1 Score: 0.05581395348837209

Label 12 - Accuracy: 0.38781575037147104, Precision: 0.019230769230769232, Recall: 0.6666666666666666, F1 Score: 0.037383177570093455

Label 13 - Accuracy: 0.38930163447251115, Precision: 0.014423076923076924, Recall: 0.8571428571428571, F1 Score: 0.028368794326241138

Label 14 - Accuracy: 0.39078751857355126, Precision: 0.019230769230769232, Recall: 0.8, F1 Score: 0.03755868544600939

Label 15 - Accuracy: 0.3937592867756315, Precision: 0.02403846153846154, Recall: 0.8333333333333334, F1 Score: 0.04672897196261682

Label 16 - Accuracy: 0.3922734026745914, Precision: 0.019230769230769232, Recall: 0.8888888888888888, F1 Score: 0.037647058823529415

Label 17 - Accuracy: 0.38781575037147104, Precision: 0.014423076923076924, Recall: 0.75, F1 Score: 0.02830188679245283

Label 18 - Accuracy: 0.3789004457652303, Precision: 0.014423076923076924, Recall: 0.42857142857142855, F1 Score: 0.027906976744186046

Label 19 - Accuracy: 0.38930163447251115, Precision: 0.016826923076923076, Recall: 0.7777777777777778, F1 Score: 0.03294117647058823

Label 20 - Accuracy: 0.3922734026745914, Precision: 0.016826923076923076, Recall: 1.0, F1 Score: 0.03309692671394799

Label 21 - Accuracy: 0.3848439821693908, Precision: 0.01201923076923077, Recall: 0.625, F1 Score: 0.02358490566037736

Label 22 - Accuracy: 0.38781575037147104, Precision: 0.014423076923076924, Recall: 0.75, F1 Score: 0.02830188679245283

Label 23 - Accuracy: 0.3863298662704309, Precision: 0.009615384615384616, Recall: 0.8, F1 Score: 0.019002375296912115

Label 24 - Accuracy: 0.3937592867756315, Precision: 0.019230769230769232, Recall: 1.0, F1 Score: 0.03773584905660378

Label 25 - Accuracy: 0.3789004457652303, Precision: 0.0, Recall: 0.0, F1 Score: 0.0

Label 26 - Accuracy: 0.4086181277860327, Precision: 0.2548076923076923, Recall: 0.5463917525773195, F1 Score: 0.34754098360655733