Active Learning Results

**Binary Classification between 2 and 4**

**Average similarity weighted Acquisition function:**

Number of Labelled Data = 10 Accuracy = 0.9809613435644998

Number of Labelled Data = 20 Accuracy = 0.9856667149268857

Number of Labelled Data = 30 Accuracy = 0.9861734472274504

Number of Labelled Data = 40 Accuracy = 0.9877660344577964

Number of Labelled Data = 50 Accuracy = 0.9882727667583611

Number of Labelled Data = 60 Accuracy = 0.9892862313594903

Number of Labelled Data = 70 Accuracy = 0.9900101346460113

Number of Labelled Data = 80 Accuracy = 0.9901549153033155

Number of Labelled Data = 90 Accuracy = 0.9913131605617489

Number of Labelled Data = 100 Accuracy = 0.9915303315477052

Number of Labelled Data = 110 Accuracy = 0.9918198928623136

Number of Labelled Data = 120 Accuracy = 0.9923990154915303

Number of Labelled Data = 130 Accuracy = 0.9925437961488345

Number of Labelled Data = 140 Accuracy = 0.9927609671347908

Number of Labelled Data = 150 Accuracy = 0.9934124800926596

Number of Labelled Data = 160 Accuracy = 0.9934124800926596

Number of Labelled Data = 170 Accuracy = 0.9931229187780513

Number of Labelled Data = 180 Accuracy = 0.9934124800926596

Number of Labelled Data = 190 Accuracy = 0.993702041407268

Number of Labelled Data = 200 Accuracy = 0.9939916027218764

Number of Labelled Data = 210 Accuracy = 0.9944259446937889

Number of Labelled Data = 220 Accuracy = 0.9943535543651368

Number of Labelled Data = 230 Accuracy = 0.994498335022441

Number of Labelled Data = 240 Accuracy = 0.9942087737078327

Number of Labelled Data = 250 Accuracy = 0.994498335022441

Number of Labelled Data = 260 Accuracy = 0.9950050673230056

Number of Labelled Data = 270 Accuracy = 0.9948602866657015

Number of Labelled Data = 280 Accuracy = 0.9947878963370493

Number of Labelled Data = 290 Accuracy = 0.9951498479803098

Number of Labelled Data = 300 Accuracy = 0.9951498479803098

Number of Labelled Data = 310 Accuracy = 0.9950050673230056

Number of Labelled Data = 320 Accuracy = 0.9950774576516578

Number of Labelled Data = 330 Accuracy = 0.9950050673230056

Number of Labelled Data = 340 Accuracy = 0.9953670189662661

Number of Labelled Data = 350 Accuracy = 0.995222238308962

Number of Labelled Data = 360 Accuracy = 0.995294628637614

Number of Labelled Data = 370 Accuracy = 0.9954394092949183

Number of Labelled Data = 380 Accuracy = 0.9954394092949183

Number of Labelled Data = 390 Accuracy = 0.9955841899522224

Number of Labelled Data = 400 Accuracy = 0.9955117996235703

Number of Labelled Data = 410 Accuracy = 0.9955117996235703

Number of Labelled Data = 420 Accuracy = 0.9955117996235703

Number of Labelled Data = 430 Accuracy = 0.9956565802808744

Number of Labelled Data = 440 Accuracy = 0.9956565802808744

Number of Labelled Data = 450 Accuracy = 0.9955841899522224

Number of Labelled Data = 460 Accuracy = 0.9956565802808744

Number of Labelled Data = 470 Accuracy = 0.9957289706095266

Number of Labelled Data = 480 Accuracy = 0.9958013609381786

Number of Labelled Data = 490 Accuracy = 0.9959461415954829

Number of Labelled Data = 500 Accuracy = 0.9959461415954829

**Binary Classification between 1 and 2**

**Relative\_Average similarity weighted Acquisition function:**

[1, 2]

Accuracy = 0.810318154301473

Number of Labelled Data = 10 Accuracy = 0.9790811865204816

Number of Labelled Data = 20 Accuracy = 0.9864128606981907

Number of Labelled Data = 30 Accuracy = 0.9872200174883972

Number of Labelled Data = 40 Accuracy = 0.9880271742786036

Number of Labelled Data = 50 Accuracy = 0.9889688572005112

Number of Labelled Data = 60 Accuracy = 0.9889015941346606

Number of Labelled Data = 70 Accuracy = 0.9899105401224187

Number of Labelled Data = 80 Accuracy = 0.9899778031882693

Number of Labelled Data = 90 Accuracy = 0.9913230645052802

Number of Labelled Data = 100 Accuracy = 0.9936772718100491

Number of Labelled Data = 110 Accuracy = 0.9944844286002557

Number of Labelled Data = 120 Accuracy = 0.9948207439295083

Number of Labelled Data = 130 Accuracy = 0.9948207439295083

Number of Labelled Data = 140 Accuracy = 0.9952243223246116

Number of Labelled Data = 150 Accuracy = 0.9953588484563126

Number of Labelled Data = 160 Accuracy = 0.9955606376538643

Number of Labelled Data = 170 Accuracy = 0.9953588484563126

Number of Labelled Data = 180 Accuracy = 0.9955606376538643

Number of Labelled Data = 190 Accuracy = 0.9954261115221632

Number of Labelled Data = 200 Accuracy = 0.9953588484563126

Number of Labelled Data = 210 Accuracy = 0.9959642160489676

Number of Labelled Data = 220 Accuracy = 0.9964350575099213

Number of Labelled Data = 230 Accuracy = 0.9963005313782202

Number of Labelled Data = 240 Accuracy = 0.9962332683123697

Number of Labelled Data = 250 Accuracy = 0.9966368467074729

Number of Labelled Data = 260 Accuracy = 0.9968386359050245

Number of Labelled Data = 270 Accuracy = 0.9969731620367256

Number of Labelled Data = 280 Accuracy = 0.9969731620367256

Number of Labelled Data = 290 Accuracy = 0.9969058989708751

Number of Labelled Data = 300 Accuracy = 0.996771372839174

Number of Labelled Data = 310 Accuracy = 0.9965695836416224

Number of Labelled Data = 320 Accuracy = 0.9966368467074729

Number of Labelled Data = 330 Accuracy = 0.996771372839174

Number of Labelled Data = 340 Accuracy = 0.9966368467074729

Number of Labelled Data = 350 Accuracy = 0.9971749512342772

Number of Labelled Data = 360 Accuracy = 0.9973094773659783

Number of Labelled Data = 370 Accuracy = 0.9971076881684268

Number of Labelled Data = 380 Accuracy = 0.9973767404318289

Number of Labelled Data = 390 Accuracy = 0.9973094773659783

Number of Labelled Data = 400 Accuracy = 0.9974440034976795

Number of Labelled Data = 410 Accuracy = 0.9974440034976795

Number of Labelled Data = 420 Accuracy = 0.9973767404318289

Number of Labelled Data = 430 Accuracy = 0.99751126656353

Number of Labelled Data = 440 Accuracy = 0.99751126656353

Number of Labelled Data = 450 Accuracy = 0.9974440034976795

Number of Labelled Data = 460 Accuracy = 0.99751126656353

Number of Labelled Data = 470 Accuracy = 0.9973767404318289

Number of Labelled Data = 480 Accuracy = 0.9975785296293805

Number of Labelled Data = 490 Accuracy = 0.9975785296293805

Number of Labelled Data = 500 Accuracy = 0.997645792695231