**SFL WITH GAN:**

Client1 Train => Local Epoch: 0 Acc: 51.392 Loss: 0.9754 Precision: 0.484 Recall: 0.714

Client1 Test => Acc: 50.313 Loss: 0.9990 Precision: 1.000 Recall: 1.000

Client0 Train => Local Epoch: 0 Acc: 49.394 Loss: 1.0082 Precision: 0.607 Recall: 0.607

Client0 Test => Acc: 50.313 Loss: 1.0244 Precision: 1.000 Recall: 1.000

------------------------------------------------

------ Federation process at Server-Side -------

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====================== SERVER V1==========================

Train: Round 0, Avg Accuracy 50.393 | Avg Loss 0.992

Test: Round 0, Avg Accuracy 50.313 | Avg Loss 1.012

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------ FedServer: Federation process at Client-Side -------

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Client0 Train => Local Epoch: 0 Acc: 56.611 Loss: 0.9073 Precision: 0.638 Recall: 0.607

Client0 Test => Acc: 50.313 Loss: 1.6319 Precision: 1.000 Recall: 1.000

Client1 Train => Local Epoch: 0 Acc: 56.707 Loss: 0.9173 Precision: 0.590 Recall: 0.643

Client1 Test => Acc: 50.313 Loss: 1.3751 Precision: 1.000 Recall: 1.000

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------ Federation process at Server-Side -------

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====================== SERVER V1==========================

Train: Round 1, Avg Accuracy 56.659 | Avg Loss 0.912

Test: Round 1, Avg Accuracy 50.313 | Avg Loss 1.504

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------ FedServer: Federation process at Client-Side -------

-----------------------------------------------------------

Client1 Train => Local Epoch: 0 Acc: 63.361 Loss: 0.8179 Precision: 0.571 Recall: 0.571

Client1 Test => Acc: 67.500 Loss: 0.7011 Precision: 1.000 Recall: 1.000

Client0 Train => Local Epoch: 0 Acc: 64.711 Loss: 0.7996 Precision: 0.741 Recall: 0.714

Client0 Test => Acc: 69.063 Loss: 0.6873 Precision: 1.000 Recall: 1.000

------------------------------------------------

------ Federation process at Server-Side -------

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====================== SERVER V1==========================

Train: Round 2, Avg Accuracy 64.036 | Avg Loss 0.809

Test: Round 2, Avg Accuracy 68.281 | Avg Loss 0.694

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------ FedServer: Federation process at Client-Side -------

-----------------------------------------------------------

Client1 Train => Local Epoch: 0 Acc: 64.615 Loss: 0.7502 Precision: 0.613 Recall: 0.679

Client1 Test => Acc: 67.500 Loss: 0.8568 Precision: 1.000 Recall: 1.000

Client0 Train => Local Epoch: 0 Acc: 63.510 Loss: 0.7683 Precision: 0.421 Recall: 0.571

Client0 Test => Acc: 67.500 Loss: 0.7186 Precision: 1.000 Recall: 1.000

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------ Federation process at Server-Side -------

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====================== SERVER V1==========================

Train: Round 3, Avg Accuracy 64.063 | Avg Loss 0.759

Test: Round 3, Avg Accuracy 67.500 | Avg Loss 0.788

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------ FedServer: Federation process at Client-Side -------

-----------------------------------------------------------

Client1 Train => Local Epoch: 0 Acc: 65.391 Loss: 0.7294 Precision: 0.635 Recall: 0.607

Client1 Test => Acc: 67.133 Loss: 1.4998 Precision: 1.000 Recall: 0.825

Client0 Train => Local Epoch: 0 Acc: 64.870 Loss: 0.7341 Precision: 0.413 Recall: 0.607

Client0 Test => Acc: 69.688 Loss: 0.8212 Precision: 1.000 Recall: 1.000

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------ Federation process at Server-Side -------

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====================== SERVER V1==========================

Train: Round 4, Avg Accuracy 65.131 | Avg Loss 0.732

Test: Round 4, Avg Accuracy 68.410 | Avg Loss 1.161

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------ FedServer: Federation process at Client-Side -------

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Client0 Train => Local Epoch: 0 Acc: 67.102 Loss: 0.7148 Precision: 0.774 Recall: 0.857

Client0 Test => Acc: 70.000 Loss: 0.5884 Precision: 1.000 Recall: 1.000

Client1 Train => Local Epoch: 0 Acc: 63.776 Loss: 0.7072 Precision: 0.545 Recall: 0.643

Client1 Test => Acc: 71.250 Loss: 0.5426 Precision: 1.000 Recall: 1.000

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------ Federation process at Server-Side -------

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====================== SERVER V1==========================

Train: Round 5, Avg Accuracy 65.439 | Avg Loss 0.711

Test: Round 5, Avg Accuracy 70.625 | Avg Loss 0.566

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------ FedServer: Federation process at Client-Side -------

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Client1 Train => Local Epoch: 0 Acc: 64.636 Loss: 0.6986 Precision: 0.686 Recall: 0.714

Client1 Test => Acc: 68.125 Loss: 0.7673 Precision: 1.000 Recall: 1.000

Client0 Train => Local Epoch: 0 Acc: 65.806 Loss: 0.6854 Precision: 0.434 Recall: 0.679

Client0 Test => Acc: 68.750 Loss: 0.5866 Precision: 1.000 Recall: 1.000

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------ Federation process at Server-Side -------

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====================== SERVER V1==========================

Train: Round 6, Avg Accuracy 65.221 | Avg Loss 0.692

Test: Round 6, Avg Accuracy 68.438 | Avg Loss 0.677

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------ FedServer: Federation process at Client-Side -------

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Client0 Train => Local Epoch: 0 Acc: 64.764 Loss: 0.7079 Precision: 0.738 Recall: 0.679

Client0 Test => Acc: 65.273 Loss: 0.9428 Precision: 1.000 Recall: 0.873

Client1 Train => Local Epoch: 0 Acc: 64.233 Loss: 0.7095 Precision: 0.497 Recall: 0.536

Client1 Test => Acc: 69.058 Loss: 0.5868 Precision: 1.000 Recall: 0.984

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------ Federation process at Server-Side -------

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====================== SERVER V1==========================

Train: Round 7, Avg Accuracy 64.498 | Avg Loss 0.709

Test: Round 7, Avg Accuracy 67.165 | Avg Loss 0.765

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------ FedServer: Federation process at Client-Side -------

-----------------------------------------------------------

Client0 Train => Local Epoch: 0 Acc: 66.741 Loss: 0.6572 Precision: 0.438 Recall: 0.500

Client0 Test => Acc: 70.595 Loss: 0.6024 Precision: 1.000 Recall: 0.905

Client1 Train => Local Epoch: 0 Acc: 67.698 Loss: 0.6536 Precision: 0.279 Recall: 0.607

Client1 Test => Acc: 74.663 Loss: 0.5032 Precision: 1.000 Recall: 0.921

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------ Federation process at Server-Side -------

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====================== SERVER V1==========================

Train: Round 8, Avg Accuracy 67.219 | Avg Loss 0.655

Test: Round 8, Avg Accuracy 72.629 | Avg Loss 0.553

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------ FedServer: Federation process at Client-Side -------

-----------------------------------------------------------

Client0 Train => Local Epoch: 0 Acc: 67.145 Loss: 0.6608 Precision: 0.559 Recall: 0.679

Client0 Test => Acc: 69.678 Loss: 0.7411 Precision: 1.000 Recall: 0.968

Client1 Train => Local Epoch: 0 Acc: 67.623 Loss: 0.6675 Precision: 0.481 Recall: 0.607

Client1 Test => Acc: 68.725 Loss: 0.5206 Precision: 1.000 Recall: 0.921

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------ Federation process at Server-Side -------

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====================== SERVER V1==========================

Train: Round 9, Avg Accuracy 67.384 | Avg Loss 0.664

Test: Round 9, Avg Accuracy 69.201 | Avg Loss 0.631

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------ FedServer: Federation process at Client-Side -------

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Client1 Train => Local Epoch: 0 Acc: 65.838 Loss: 0.6677 Precision: 0.454 Recall: 0.607

Client1 Test => Acc: 79.970 Loss: 0.4981 Precision: 1.000 Recall: 0.905

Client0 Train => Local Epoch: 0 Acc: 67.528 Loss: 0.6669 Precision: 0.143 Recall: 0.571

Client0 Test => Acc: 70.908 Loss: 0.5020 Precision: 1.000 Recall: 0.905

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------ Federation process at Server-Side -------

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====================== SERVER V1==========================

Train: Round 10, Avg Accuracy 66.683 | Avg Loss 0.667

Test: Round 10, Avg Accuracy 75.439 | Avg Loss 0.500

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------ FedServer: Federation process at Client-Side -------

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Client1 Train => Local Epoch: 0 Acc: 69.919 Loss: 0.6146 Precision: 0.714 Recall: 0.714

Client1 Test => Acc: 61.766 Loss: 0.6333 Precision: 1.000 Recall: 0.651

Client0 Train => Local Epoch: 0 Acc: 68.261 Loss: 0.6405 Precision: 0.738 Recall: 0.679

Client0 Test => Acc: 69.330 Loss: 0.5637 Precision: 1.000 Recall: 0.857

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------ Federation process at Server-Side -------

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====================== SERVER V1==========================

Train: Round 11, Avg Accuracy 69.090 | Avg Loss 0.628

Test: Round 11, Avg Accuracy 65.548 | Avg Loss 0.598

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------ FedServer: Federation process at Client-Side -------

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Client0 Train => Local Epoch: 0 Acc: 67.761 Loss: 0.6439 Precision: 0.526 Recall: 0.714

Client0 Test => Acc: 68.686 Loss: 0.7165 Precision: 1.000 Recall: 0.794

Client1 Train => Local Epoch: 0 Acc: 69.579 Loss: 0.6334 Precision: 0.677 Recall: 0.643

Client1 Test => Acc: 79.345 Loss: 0.4683 Precision: 1.000 Recall: 0.905

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------ Federation process at Server-Side -------

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====================== SERVER V1==========================

Train: Round 12, Avg Accuracy 68.670 | Avg Loss 0.639

Test: Round 12, Avg Accuracy 74.015 | Avg Loss 0.592

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------ FedServer: Federation process at Client-Side -------

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Client0 Train => Local Epoch: 0 Acc: 69.845 Loss: 0.6190 Precision: 0.741 Recall: 0.714

Client0 Test => Acc: 69.063 Loss: 0.7599 Precision: 1.000 Recall: 1.000

Client1 Train => Local Epoch: 0 Acc: 68.378 Loss: 0.6369 Precision: 0.529 Recall: 0.750

Client1 Test => Acc: 69.688 Loss: 0.5280 Precision: 1.000 Recall: 1.000

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------ Federation process at Server-Side -------

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====================== SERVER V1==========================

Train: Round 13, Avg Accuracy 69.111 | Avg Loss 0.628

Test: Round 13, Avg Accuracy 69.375 | Avg Loss 0.644

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------ FedServer: Federation process at Client-Side -------

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Client0 Train => Local Epoch: 0 Acc: 70.706 Loss: 0.6190 Precision: 0.710 Recall: 0.786

Client0 Test => Acc: 67.813 Loss: 1.0989 Precision: 1.000 Recall: 1.000

Client1 Train => Local Epoch: 0 Acc: 70.514 Loss: 0.6107 Precision: 0.294 Recall: 0.714

Client1 Test => Acc: 68.105 Loss: 0.5831 Precision: 1.000 Recall: 0.937

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------ Federation process at Server-Side -------

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====================== SERVER V1==========================

Train: Round 14, Avg Accuracy 70.610 | Avg Loss 0.615

Test: Round 14, Avg Accuracy 67.959 | Avg Loss 0.841

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------ FedServer: Federation process at Client-Side -------

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Client0 Train => Local Epoch: 0 Acc: 69.940 Loss: 0.6076 Precision: 0.720 Recall: 0.750

Client0 Test => Acc: 68.056 Loss: 0.5322 Precision: 1.000 Recall: 0.778

Client1 Train => Local Epoch: 0 Acc: 69.281 Loss: 0.5897 Precision: 0.474 Recall: 0.643

Client1 Test => Acc: 74.306 Loss: 0.5220 Precision: 1.000 Recall: 0.778

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------ Federation process at Server-Side -------

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====================== SERVER V1==========================

Train: Round 15, Avg Accuracy 69.611 | Avg Loss 0.599

Test: Round 15, Avg Accuracy 71.181 | Avg Loss 0.527

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------ FedServer: Federation process at Client-Side -------

-----------------------------------------------------------

Client1 Train => Local Epoch: 0 Acc: 71.631 Loss: 0.5920 Precision: 0.405 Recall: 0.714

Client1 Test => Acc: 83.710 Loss: 0.4232 Precision: 1.000 Recall: 0.873

Client0 Train => Local Epoch: 0 Acc: 71.631 Loss: 0.5979 Precision: 0.577 Recall: 0.714

Client0 Test => Acc: 84.658 Loss: 0.4177 Precision: 1.000 Recall: 0.905

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------ Federation process at Server-Side -------

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====================== SERVER V1==========================

Train: Round 16, Avg Accuracy 71.631 | Avg Loss 0.595

Test: Round 16, Avg Accuracy 84.184 | Avg Loss 0.420

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------ FedServer: Federation process at Client-Side -------

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Client0 Train => Local Epoch: 0 Acc: 71.163 Loss: 0.5901 Precision: 0.490 Recall: 0.679

Client0 Test => Acc: 69.360 Loss: 1.7625 Precision: 1.000 Recall: 0.952

Client1 Train => Local Epoch: 0 Acc: 74.575 Loss: 0.5670 Precision: 0.765 Recall: 0.786

Client1 Test => Acc: 70.918 Loss: 1.5330 Precision: 1.000 Recall: 0.937

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------ Federation process at Server-Side -------

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====================== SERVER V1==========================

Train: Round 17, Avg Accuracy 72.869 | Avg Loss 0.579

Test: Round 17, Avg Accuracy 70.139 | Avg Loss 1.648

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------ FedServer: Federation process at Client-Side -------

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Client0 Train => Local Epoch: 0 Acc: 72.810 Loss: 0.5585 Precision: 0.866 Recall: 0.821

Client0 Test => Acc: 69.688 Loss: 0.6374 Precision: 1.000 Recall: 1.000

Client1 Train => Local Epoch: 0 Acc: 69.951 Loss: 0.6086 Precision: 0.615 Recall: 0.643

Client1 Test => Acc: 86.533 Loss: 0.4169 Precision: 1.000 Recall: 0.905

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------ Federation process at Server-Side -------

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====================== SERVER V1==========================

Train: Round 18, Avg Accuracy 71.381 | Avg Loss 0.584

Test: Round 18, Avg Accuracy 78.110 | Avg Loss 0.527

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------ FedServer: Federation process at Client-Side -------

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Client1 Train => Local Epoch: 0 Acc: 71.907 Loss: 0.5890 Precision: 0.413 Recall: 0.679

Client1 Test => Acc: 53.581 Loss: 0.7513 Precision: 1.000 Recall: 0.460

Client0 Train => Local Epoch: 0 Acc: 71.758 Loss: 0.5791 Precision: 0.704 Recall: 0.679

Client0 Test => Acc: 63.973 Loss: 0.7555 Precision: 1.000 Recall: 0.714

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------ Federation process at Server-Side -------

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====================== SERVER V1==========================

Train: Round 19, Avg Accuracy 71.832 | Avg Loss 0.584

Test: Round 19, Avg Accuracy 58.777 | Avg Loss 0.753

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------ FedServer: Federation process at Client-Side -------

-----------------------------------------------------------

Client0 Train => Local Epoch: 0 Acc: 75.085 Loss: 0.5424 Precision: 0.769 Recall: 0.893

Client0 Test => Acc: 72.708 Loss: 0.5763 Precision: 1.000 Recall: 0.667

Client1 Train => Local Epoch: 0 Acc: 73.639 Loss: 0.5511 Precision: 0.556 Recall: 0.714

Client1 Test => Acc: 79.911 Loss: 0.4772 Precision: 1.000 Recall: 0.714

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------ Federation process at Server-Side -------

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====================== SERVER V1==========================

Train: Round 20, Avg Accuracy 74.362 | Avg Loss 0.547

Test: Round 20, Avg Accuracy 76.310 | Avg Loss 0.527

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------ FedServer: Federation process at Client-Side -------

-----------------------------------------------------------

Client0 Train => Local Epoch: 0 Acc: 73.969 Loss: 0.5460 Precision: 0.545 Recall: 0.643

Client0 Test => Acc: 70.898 Loss: 0.7876 Precision: 1.000 Recall: 0.873

Client1 Train => Local Epoch: 0 Acc: 74.128 Loss: 0.5731 Precision: 0.710 Recall: 0.786

Client1 Test => Acc: 71.210 Loss: 0.8263 Precision: 1.000 Recall: 0.873

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------ Federation process at Server-Side -------

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====================== SERVER V1==========================

Train: Round 21, Avg Accuracy 74.049 | Avg Loss 0.560

Test: Round 21, Avg Accuracy 71.054 | Avg Loss 0.807

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------ FedServer: Federation process at Client-Side -------

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Client1 Train => Local Epoch: 0 Acc: 72.236 Loss: 0.5610 Precision: 0.789 Recall: 0.857

Client1 Test => Acc: 78.026 Loss: 0.5318 Precision: 1.000 Recall: 0.683

Client0 Train => Local Epoch: 0 Acc: 74.245 Loss: 0.5563 Precision: 0.340 Recall: 0.607

Client0 Test => Acc: 78.973 Loss: 0.5100 Precision: 1.000 Recall: 0.714

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------ Federation process at Server-Side -------

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====================== SERVER V1==========================

Train: Round 22, Avg Accuracy 73.241 | Avg Loss 0.559

Test: Round 22, Avg Accuracy 78.500 | Avg Loss 0.521

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------ FedServer: Federation process at Client-Side -------

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Client1 Train => Local Epoch: 0 Acc: 74.564 Loss: 0.5319 Precision: 0.893 Recall: 0.893

Client1 Test => Acc: 67.128 Loss: 0.9065 Precision: 1.000 Recall: 0.810

Client0 Train => Local Epoch: 0 Acc: 75.159 Loss: 0.5587 Precision: 0.862 Recall: 0.893

Client0 Test => Acc: 84.643 Loss: 0.3739 Precision: 1.000 Recall: 0.857

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------ Federation process at Server-Side -------

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====================== SERVER V1==========================

Train: Round 23, Avg Accuracy 74.862 | Avg Loss 0.545

Test: Round 23, Avg Accuracy 75.885 | Avg Loss 0.640

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------ FedServer: Federation process at Client-Side -------

-----------------------------------------------------------

Client1 Train => Local Epoch: 0 Acc: 73.671 Loss: 0.5451 Precision: 0.826 Recall: 0.893

Client1 Test => Acc: 65.258 Loss: 1.0894 Precision: 1.000 Recall: 0.825

Client0 Train => Local Epoch: 0 Acc: 73.140 Loss: 0.5612 Precision: 0.750 Recall: 0.750

Client0 Test => Acc: 67.465 Loss: 0.8535 Precision: 1.000 Recall: 0.889

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------ Federation process at Server-Side -------

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====================== SERVER V1==========================

Train: Round 24, Avg Accuracy 73.406 | Avg Loss 0.553

Test: Round 24, Avg Accuracy 66.362 | Avg Loss 0.971

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------ FedServer: Federation process at Client-Side -------

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Client0 Train => Local Epoch: 0 Acc: 74.394 Loss: 0.5431 Precision: 0.692 Recall: 0.857

Client0 Test => Acc: 67.500 Loss: 2.7392 Precision: 1.000 Recall: 1.000

Client1 Train => Local Epoch: 0 Acc: 74.522 Loss: 0.5447 Precision: 0.763 Recall: 0.821

Client1 Test => Acc: 67.500 Loss: 1.8315 Precision: 1.000 Recall: 1.000

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------ Federation process at Server-Side -------

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====================== SERVER V1==========================

Train: Round 25, Avg Accuracy 74.458 | Avg Loss 0.544

Test: Round 25, Avg Accuracy 67.500 | Avg Loss 1.000

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------ FedServer: Federation process at Client-Side -------

-----------------------------------------------------------

Client0 Train => Local Epoch: 0 Acc: 73.289 Loss: 0.5538 Precision: 0.711 Recall: 0.750

Client0 Test => Acc: 69.013 Loss: 0.9551 Precision: 1.000 Recall: 0.841

Client1 Train => Local Epoch: 0 Acc: 75.861 Loss: 0.5159 Precision: 0.852 Recall: 0.821

Client1 Test => Acc: 62.436 Loss: 0.8202 Precision: 1.000 Recall: 0.794

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------ Federation process at Server-Side -------

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====================== SERVER V1==========================

Train: Round 26, Avg Accuracy 74.575 | Avg Loss 0.535

Test: Round 26, Avg Accuracy 65.724 | Avg Loss 0.888

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------ FedServer: Federation process at Client-Side -------

-----------------------------------------------------------

Client0 Train => Local Epoch: 0 Acc: 73.948 Loss: 0.5162 Precision: 0.457 Recall: 0.607

Client0 Test => Acc: 77.406 Loss: 0.4832 Precision: 1.000 Recall: 0.698

Client1 Train => Local Epoch: 0 Acc: 76.414 Loss: 0.5169 Precision: 0.714 Recall: 0.750

Client1 Test => Acc: 74.598 Loss: 0.5120 Precision: 1.000 Recall: 0.714

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------ Federation process at Server-Side -------

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====================== SERVER V1==========================

Train: Round 27, Avg Accuracy 75.181 | Avg Loss 0.517

Test: Round 27, Avg Accuracy 76.002 | Avg Loss 0.498

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------ FedServer: Federation process at Client-Side -------

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Client1 Train => Local Epoch: 0 Acc: 75.425 Loss: 0.5334 Precision: 0.806 Recall: 0.714

Client1 Test => Acc: 62.778 Loss: 0.9929 Precision: 1.000 Recall: 0.889

Client0 Train => Local Epoch: 0 Acc: 74.660 Loss: 0.5265 Precision: 0.448 Recall: 0.679

Client0 Test => Acc: 64.355 Loss: 1.0356 Precision: 1.000 Recall: 0.937

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------ Federation process at Server-Side -------

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====================== SERVER V1==========================

Train: Round 28, Avg Accuracy 75.043 | Avg Loss 0.530

Test: Round 28, Avg Accuracy 63.566 | Avg Loss 1.014

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------ FedServer: Federation process at Client-Side -------

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Client0 Train => Local Epoch: 0 Acc: 75.733 Loss: 0.5005 Precision: 0.840 Recall: 0.857

Client0 Test => Acc: 69.643 Loss: 0.7238 Precision: 1.000 Recall: 0.857

Client1 Train => Local Epoch: 0 Acc: 77.009 Loss: 0.4966 Precision: 0.730 Recall: 0.750

Client1 Test => Acc: 67.768 Loss: 0.7719 Precision: 1.000 Recall: 0.857

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------ Federation process at Server-Side -------

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====================== SERVER V1==========================

Train: Round 29, Avg Accuracy 76.371 | Avg Loss 0.499

Test: Round 29, Avg Accuracy 68.705 | Avg Loss 0.748

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------ FedServer: Federation process at Client-Side -------

-----------------------------------------------------------

Client0 Train => Local Epoch: 0 Acc: 75.478 Loss: 0.5130 Precision: 0.585 Recall: 0.679

Client0 Test => Acc: 69.315 Loss: 1.3515 Precision: 1.000 Recall: 0.810

Client1 Train => Local Epoch: 0 Acc: 76.446 Loss: 0.5279 Precision: 0.514 Recall: 0.679

Client1 Test => Acc: 70.278 Loss: 1.3282 Precision: 1.000 Recall: 0.889

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------ Federation process at Server-Side -------

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====================== SERVER V1==========================

Train: Round 30, Avg Accuracy 75.962 | Avg Loss 0.520

Test: Round 30, Avg Accuracy 69.797 | Avg Loss 1.340

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------ FedServer: Federation process at Client-Side -------

-----------------------------------------------------------

Client1 Train => Local Epoch: 0 Acc: 76.807 Loss: 0.5077 Precision: 0.524 Recall: 0.786

Client1 Test => Acc: 64.301 Loss: 2.2901 Precision: 1.000 Recall: 0.762

Client0 Train => Local Epoch: 0 Acc: 77.158 Loss: 0.4883 Precision: 0.692 Recall: 0.750

Client0 Test => Acc: 63.690 Loss: 1.0150 Precision: 1.000 Recall: 0.810

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------ Federation process at Server-Side -------

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====================== SERVER V1==========================

Train: Round 31, Avg Accuracy 76.982 | Avg Loss 0.498

Test: Round 31, Avg Accuracy 63.996 | Avg Loss 1.653

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------ FedServer: Federation process at Client-Side -------

-----------------------------------------------------------

Client1 Train => Local Epoch: 0 Acc: 75.446 Loss: 0.5030 Precision: 0.818 Recall: 0.750

Client1 Test => Acc: 69.921 Loss: 0.6159 Precision: 1.000 Recall: 0.746

Client0 Train => Local Epoch: 0 Acc: 76.042 Loss: 0.5196 Precision: 0.774 Recall: 0.750

Client0 Test => Acc: 71.166 Loss: 0.6456 Precision: 1.000 Recall: 0.730

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------ Federation process at Server-Side -------

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====================== SERVER V1==========================

Train: Round 32, Avg Accuracy 75.744 | Avg Loss 0.511

Test: Round 32, Avg Accuracy 70.543 | Avg Loss 0.631

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------ FedServer: Federation process at Client-Side -------

-----------------------------------------------------------

Client0 Train => Local Epoch: 0 Acc: 77.487 Loss: 0.4957 Precision: 0.878 Recall: 0.929

Client0 Test => Acc: 65.228 Loss: 1.1901 Precision: 1.000 Recall: 0.730

Client1 Train => Local Epoch: 0 Acc: 76.233 Loss: 0.5063 Precision: 0.801 Recall: 0.821

Client1 Test => Acc: 69.306 Loss: 0.8000 Precision: 1.000 Recall: 0.778

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------ Federation process at Server-Side -------

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====================== SERVER V1==========================

Train: Round 33, Avg Accuracy 76.860 | Avg Loss 0.501

Test: Round 33, Avg Accuracy 67.267 | Avg Loss 0.995

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------ FedServer: Federation process at Client-Side -------

-----------------------------------------------------------

Client0 Train => Local Epoch: 0 Acc: 76.063 Loss: 0.4996 Precision: 0.753 Recall: 0.786

Client0 Test => Acc: 66.553 Loss: 1.7058 Precision: 1.000 Recall: 0.968

Client1 Train => Local Epoch: 0 Acc: 77.136 Loss: 0.5120 Precision: 0.357 Recall: 0.714

Client1 Test => Acc: 67.485 Loss: 0.7010 Precision: 1.000 Recall: 0.952

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------ Federation process at Server-Side -------

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====================== SERVER V1==========================

Train: Round 34, Avg Accuracy 76.600 | Avg Loss 0.506

Test: Round 34, Avg Accuracy 67.019 | Avg Loss 1.203

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------ FedServer: Federation process at Client-Side -------

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Client1 Train => Local Epoch: 0 Acc: 78.051 Loss: 0.4782 Precision: 0.450 Recall: 0.750

Client1 Test => Acc: 64.266 Loss: 0.7985 Precision: 1.000 Recall: 0.651

Client0 Train => Local Epoch: 0 Acc: 74.309 Loss: 0.5238 Precision: 0.556 Recall: 0.714

Client0 Test => Acc: 77.753 Loss: 0.5282 Precision: 1.000 Recall: 0.810

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------ Federation process at Server-Side -------

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====================== SERVER V1==========================

Train: Round 35, Avg Accuracy 76.180 | Avg Loss 0.501

Test: Round 35, Avg Accuracy 71.009 | Avg Loss 0.663

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------ FedServer: Federation process at Client-Side -------

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Client0 Train => Local Epoch: 0 Acc: 76.350 Loss: 0.4812 Precision: 0.667 Recall: 0.643

Client0 Test => Acc: 43.909 Loss: 1.9700 Precision: 1.000 Recall: 0.508

Client1 Train => Local Epoch: 0 Acc: 75.276 Loss: 0.5083 Precision: 0.581 Recall: 0.714

Client1 Test => Acc: 70.868 Loss: 0.7345 Precision: 1.000 Recall: 0.778

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------ Federation process at Server-Side -------

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====================== SERVER V1==========================

Train: Round 36, Avg Accuracy 75.813 | Avg Loss 0.495

Test: Round 36, Avg Accuracy 57.388 | Avg Loss 1.352

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------ FedServer: Federation process at Client-Side -------

-----------------------------------------------------------

Client0 Train => Local Epoch: 0 Acc: 76.860 Loss: 0.4907 Precision: 0.808 Recall: 0.750

Client0 Test => Acc: 76.176 Loss: 0.6466 Precision: 1.000 Recall: 0.762

Client1 Train => Local Epoch: 0 Acc: 78.561 Loss: 0.4747 Precision: 0.811 Recall: 0.857

Client1 Test => Acc: 78.031 Loss: 0.6229 Precision: 1.000 Recall: 0.698

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------ Federation process at Server-Side -------

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====================== SERVER V1==========================

Train: Round 37, Avg Accuracy 77.710 | Avg Loss 0.483

Test: Round 37, Avg Accuracy 77.103 | Avg Loss 0.635

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------ FedServer: Federation process at Client-Side -------

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Client0 Train => Local Epoch: 0 Acc: 77.243 Loss: 0.4798 Precision: 0.450 Recall: 0.643

Client0 Test => Acc: 63.011 Loss: 1.0000 Precision: 1.000 Recall: 0.635

Client1 Train => Local Epoch: 0 Acc: 78.348 Loss: 0.4716 Precision: 0.652 Recall: 0.750

Client1 Test => Acc: 56.761 Loss: 1.0310 Precision: 1.000 Recall: 0.635

------------------------------------------------

------ Federation process at Server-Side -------

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====================== SERVER V1==========================

Train: Round 38, Avg Accuracy 77.795 | Avg Loss 0.476

Test: Round 38, Avg Accuracy 59.886 | Avg Loss 1.016

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------ FedServer: Federation process at Client-Side -------

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Client1 Train => Local Epoch: 0 Acc: 78.667 Loss: 0.4562 Precision: 0.811 Recall: 0.786

Client1 Test => Acc: 69.683 Loss: 0.9067 Precision: 1.000 Recall: 0.984

Client0 Train => Local Epoch: 0 Acc: 76.764 Loss: 0.4770 Precision: 0.814 Recall: 0.714

Client0 Test => Acc: 62.158 Loss: 1.5624 Precision: 1.000 Recall: 0.905

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------ Federation process at Server-Side -------

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====================== SERVER V1==========================

Train: Round 39, Avg Accuracy 77.716 | Avg Loss 0.467

Test: Round 39, Avg Accuracy 65.920 | Avg Loss 1.235

-----------------------------------------------------------

------ FedServer: Federation process at Client-Side -------

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Client0 Train => Local Epoch: 0 Acc: 77.083 Loss: 0.4975 Precision: 0.700 Recall: 0.750

Client0 Test => Acc: 84.340 Loss: 0.3776 Precision: 1.000 Recall: 0.889

Client1 Train => Local Epoch: 0 Acc: 79.709 Loss: 0.4574 Precision: 0.767 Recall: 0.786

Client1 Test => Acc: 82.748 Loss: 0.3848 Precision: 1.000 Recall: 0.794

------------------------------------------------

------ Federation process at Server-Side -------

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====================== SERVER V1==========================

Train: Round 40, Avg Accuracy 78.396 | Avg Loss 0.477

Test: Round 40, Avg Accuracy 83.544 | Avg Loss 0.381

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