test xydi3 0.001 250

April 17, 2025

```
[7]: from tqdm import tqdm
     import torch
     import torch.nn as nn
     import torch.optim as optim
     from sklearn.metrics import accuracy_score, classification_report
     import pandas as pd
     from social_lstm_classifier import SocialLSTMClassifier
     trajectory_features = ['Positionx', 'Positiony', 'Distance', 'Speed', 'Speed'
      ⇔Change', 'Direction', 'Direction Change']
     feature_combos = {
         # 'xy_2': ['Positionx', 'Positiony'],
         # 'xyd_3': ['Positionx', 'Positiony', 'Distance'],
        # 'xydsdc_7': ['Positionx', 'Positiony', 'Distance', 'Speed', 'Direction', ___
      → 'Speed Change', 'Direction Change'],
         # 'xysd_4': ['Positionx', 'Positiony', 'Speed', 'Direction'],
         # 'xyds_4': ['Positionx', 'Positiony', 'Distance', 'Speed'],
         # 'xydd_4': ['Positionx', 'Positiony', 'Distance', 'Direction'],
         # 'xydsc_5': ['Positionx', 'Positiony', 'Distance', 'Speed', 'Speed_
      ⇔Change'],
         # 'xyddc_5': ['Positionx', 'Positiony', 'Distance', 'Direction', 'Direction_
      →Change'],
         # 'xys_3': ['Positionx', 'Positiony', 'Speed'],
         'xydi_3': ['Positionx', 'Positiony', 'Direction'],
         # 'xysc_4': ['Positionx', 'Positiony', 'Speed', 'Speed Change'],
         # 'xydc_4': ['Positionx', 'Positiony', 'Direction', 'Direction Change']
     train_data = torch.load("./train_social_lstm_full.pt")
     test_data = torch.load("./test_social_lstm_full.pt")
     results = []
     def run_experiment(feature_set, name):
         input_size = len(feature_set)
         index_map = [trajectory_features.index(f) for f in feature_set]
```

```
model = SocialLSTMClassifier(input_size=input_size)
  criterion = nn.CrossEntropyLoss()
  optimizer = optim.Adam(model.parameters(), lr=0.001)
  epochs = 250
  model.train()
  for epoch in range(epochs):
      total loss = 0.0
      for sample in tqdm(train_data, desc=f"Epoch {epoch+1}/{epochs}"):
           # traj = sample['trajectory'][:, index_map].unsqueeze(1)
           # neighbors = sample['neighbors'][:, :, index_map]
          traj = sample['trajectory'][:, index_map] # [T, 1, D]
          neighbors = [frame[:, index_map] for frame in sample['neighbors']] u
\hookrightarrow# list[T][N_i, D]
          mask = sample['neighbor_mask']
          label = torch.tensor([int(sample['cluster']) - 1], dtype=torch.long)
          optimizer.zero_grad()
          logits = model(traj, neighbors, mask)
          loss = criterion(logits, label)
          loss.backward()
          optimizer.step()
          total_loss += loss.item()
      avg_loss = total_loss / len(train_data)
      print(f"\n[Feature Set: {name}] Epoch [{epoch+1}/{epochs}] - Avg Loss:
# model.eval()
  # y true = []
  # y_pred = []
  # with torch.no_grad():
       for sample in tqdm(train_data, desc=f"Epoch {epoch+1}/{epochs}"):
             # traj = sample['trajectory'][:, index_map].unsqueeze(1)
  #
            # neighbors = sample['neighbors'][:, :, index_map]
             traj = sample['trajectory'][:, index_map] # [T, 1, D]
            neighbors = [frame[:, index_map] for frame in_
\hookrightarrow sample['neighbors']] # list[T][N_i, D]
           mask = sample['neighbor_mask']
  #
            label = int(sample['cluster']) - 1
  #
            logits = model(traj, neighbors, mask)
            pred = logits.argmax(dim=1).item()
            y_true.append(label)
```

```
y_pred.append(pred)
    model.eval()
    y_true = []
    y_pred = []
    with torch.no_grad():
        for sample in tqdm(test_data, desc=f"[Eval] {name}"):
            traj = sample['trajectory'][:, index_map]
            neighbors = [frame[:, index_map] for frame in sample['neighbors']]
            mask = sample['neighbor mask']
            label = int(sample['cluster']) - 1
            logits = model(traj, neighbors, mask)
            pred = logits.argmax(dim=1).item()
            y_true.append(label)
            y_pred.append(pred)
    acc = accuracy_score(y_true, y_pred)
    clf_report = classification_report(y_true, y_pred, output_dict=True)
    results.append({
        "Feature_Set": name,
        "Accuracy": acc,
        "Macro_F1": clf_report['macro avg']['f1-score'],
        "Weighted_F1": clf_report['weighted avg']['f1-score']
    })
for name, feats in feature_combos.items():
    run experiment(feats, name)
```

/var/folders/nt/7f1y5h8s6qd2mh1ypgjkgbpw0000gn/T/ipykernel_2483/3570158580.py:26 : FutureWarning: You are using `torch.load` with `weights_only=False` (the current default value), which uses the default pickle module implicitly. It is possible to construct malicious pickle data which will execute arbitrary code during unpickling (See

https://github.com/pytorch/pytorch/blob/main/SECURITY.md#untrusted-models for more details). In a future release, the default value for `weights_only` will be flipped to `True`. This limits the functions that could be executed during unpickling. Arbitrary objects will no longer be allowed to be loaded via this mode unless they are explicitly allowlisted by the user via

`torch.serialization.add_safe_globals`. We recommend you start setting `weights_only=True` for any use case where you don't have full control of the loaded file. Please open an issue on GitHub for any issues related to this experimental feature.

train_data = torch.load("./train_social_lstm_full.pt")
/var/folders/nt/7f1y5h8s6qd2mh1ypgjkgbpw0000gn/T/ipykernel_2483/3570158580.py:27
: FutureWarning: You are using `torch.load` with `weights_only=False` (the current default value), which uses the default pickle module implicitly. It is possible to construct malicious pickle data which will execute arbitrary code

during unpickling (See

https://github.com/pytorch/pytorch/blob/main/SECURITY.md#untrusted-models for more details). In a future release, the default value for `weights_only` will be flipped to `True`. This limits the functions that could be executed during unpickling. Arbitrary objects will no longer be allowed to be loaded via this mode unless they are explicitly allowlisted by the user via `torch.serialization.add_safe_globals`. We recommend you start setting `weights_only=True` for any use case where you don't have full control of the loaded file. Please open an issue on GitHub for any issues related to this experimental feature.

test_data = torch.load("./test_social_lstm_full.pt")
Epoch 1/250: 100%| | 570/570 [00:03<00:00, 168.78it/s]

[Feature Set: xydi_3] Epoch [1/250] - Avg Loss: 0.6738

Epoch 2/250: 100% | 570/570 [00:03<00:00, 182.48it/s]

[Feature Set: xydi_3] Epoch [2/250] - Avg Loss: 0.6634

Epoch 3/250: 100% | 570/570 [00:03<00:00, 182.43it/s]

[Feature Set: xydi_3] Epoch [3/250] - Avg Loss: 0.6575

Epoch 4/250: 100% | 570/570 [00:03<00:00, 181.77it/s]

[Feature Set: xydi_3] Epoch [4/250] - Avg Loss: 0.6496

Epoch 5/250: 100% | 570/570 [00:03<00:00, 183.68it/s]

[Feature Set: xydi_3] Epoch [5/250] - Avg Loss: 0.6380

Epoch 6/250: 100% | 570/570 [00:03<00:00, 182.21it/s]

[Feature Set: xydi_3] Epoch [6/250] - Avg Loss: 0.6249

Epoch 7/250: 100% | 570/570 [00:03<00:00, 183.31it/s]

[Feature Set: xydi_3] Epoch [7/250] - Avg Loss: 0.6121

Epoch 8/250: 100% | 570/570 [00:03<00:00, 181.98it/s]

[Feature Set: xydi_3] Epoch [8/250] - Avg Loss: 0.5789

Epoch 9/250: 100% | 570/570 [00:03<00:00, 183.63it/s]

[Feature Set: xydi_3] Epoch [9/250] - Avg Loss: 0.5584

Epoch 10/250: 100% | 570/570 [00:03<00:00, 182.37it/s]

[Feature Set: xydi_3] Epoch [10/250] - Avg Loss: 0.5364

Epoch 11/250: 100% | 570/570 [00:03<00:00, 183.62it/s]

[Feature Set: xydi_3] Epoch [11/250] - Avg Loss: 0.5342

Epoch 12/250: 100% | 570/570 [00:03<00:00, 181.49it/s]

[Feature Set: xydi_3] Epoch [12/250] - Avg Loss: 0.5081

Epoch 13/250: 100% | 570/570 [00:03<00:00, 183.58it/s]

[Feature Set: xydi_3] Epoch [13/250] - Avg Loss: 0.4782

Epoch 14/250: 100% | 570/570 [00:03<00:00, 182.55it/s]

[Feature Set: xydi_3] Epoch [14/250] - Avg Loss: 0.4764

Epoch 15/250: 100% | 570/570 [00:03<00:00, 183.76it/s]

[Feature Set: xydi_3] Epoch [15/250] - Avg Loss: 0.4463

Epoch 16/250: 100% | 570/570 [00:03<00:00, 182.55it/s]

[Feature Set: xydi_3] Epoch [16/250] - Avg Loss: 0.4173

Epoch 17/250: 100% | 570/570 [00:03<00:00, 183.40it/s]

[Feature Set: xydi_3] Epoch [17/250] - Avg Loss: 0.4016

Epoch 18/250: 100% | 570/570 [00:03<00:00, 182.76it/s]

[Feature Set: xydi_3] Epoch [18/250] - Avg Loss: 0.3732

Epoch 19/250: 100% | 570/570 [00:03<00:00, 183.64it/s]

[Feature Set: xydi_3] Epoch [19/250] - Avg Loss: 0.3494

Epoch 20/250: 100% | 570/570 [00:03<00:00, 182.63it/s]

[Feature Set: xydi_3] Epoch [20/250] - Avg Loss: 0.3412

Epoch 21/250: 100% | 570/570 [00:03<00:00, 183.58it/s]

[Feature Set: xydi_3] Epoch [21/250] - Avg Loss: 0.3288

Epoch 22/250: 100% | 570/570 [00:03<00:00, 180.73it/s]

[Feature Set: xydi_3] Epoch [22/250] - Avg Loss: 0.3425

Epoch 23/250: 100% | 570/570 [00:03<00:00, 183.79it/s]

[Feature Set: xydi_3] Epoch [23/250] - Avg Loss: 0.3026

Epoch 24/250: 100% | 570/570 [00:03<00:00, 182.32it/s]

[Feature Set: xydi_3] Epoch [24/250] - Avg Loss: 0.2867

Epoch 25/250: 100% | 570/570 [00:03<00:00, 177.63it/s]

[Feature Set: xydi_3] Epoch [25/250] - Avg Loss: 0.2723

Epoch 26/250: 100% | 570/570 [00:03<00:00, 177.68it/s]

[Feature Set: xydi_3] Epoch [26/250] - Avg Loss: 0.2675

Epoch 27/250: 100% | 570/570 [00:03<00:00, 181.43it/s]

[Feature Set: xydi_3] Epoch [27/250] - Avg Loss: 0.2801

Epoch 28/250: 100% | 570/570 [00:03<00:00, 183.22it/s]

[Feature Set: xydi_3] Epoch [28/250] - Avg Loss: 0.2681

Epoch 29/250: 100% | 570/570 [00:03<00:00, 181.70it/s]

[Feature Set: xydi_3] Epoch [29/250] - Avg Loss: 0.2343

Epoch 30/250: 100% | 570/570 [00:03<00:00, 176.82it/s]

[Feature Set: xydi_3] Epoch [30/250] - Avg Loss: 0.2123

Epoch 31/250: 100% | 570/570 [00:03<00:00, 178.94it/s]

[Feature Set: xydi_3] Epoch [31/250] - Avg Loss: 0.2187

Epoch 32/250: 100% | 570/570 [00:03<00:00, 181.04it/s]

[Feature Set: xydi_3] Epoch [32/250] - Avg Loss: 0.2153

Epoch 33/250: 100% | 570/570 [00:03<00:00, 182.17it/s]

[Feature Set: xydi_3] Epoch [33/250] - Avg Loss: 0.1986

Epoch 34/250: 100% | 570/570 [00:03<00:00, 182.01it/s]

[Feature Set: xydi_3] Epoch [34/250] - Avg Loss: 0.2020

Epoch 35/250: 100% | 570/570 [00:03<00:00, 179.95it/s]

[Feature Set: xydi_3] Epoch [35/250] - Avg Loss: 0.2289

Epoch 36/250: 100% | 570/570 [00:03<00:00, 182.27it/s]

[Feature Set: xydi_3] Epoch [36/250] - Avg Loss: 0.1789

Epoch 37/250: 100% | 570/570 [00:03<00:00, 181.42it/s]

[Feature Set: xydi_3] Epoch [37/250] - Avg Loss: 0.1788

Epoch 38/250: 100% | 570/570 [00:03<00:00, 182.24it/s]

[Feature Set: xydi_3] Epoch [38/250] - Avg Loss: 0.1646

Epoch 39/250: 100% | 570/570 [00:03<00:00, 182.11it/s]

[Feature Set: xydi_3] Epoch [39/250] - Avg Loss: 0.1747

Epoch 40/250: 100% | 570/570 [00:03<00:00, 183.28it/s]

[Feature Set: xydi_3] Epoch [40/250] - Avg Loss: 0.1560

Epoch 41/250: 100% | 570/570 [00:03<00:00, 181.58it/s]

[Feature Set: xydi_3] Epoch [41/250] - Avg Loss: 0.1728

Epoch 42/250: 100% | 570/570 [00:03<00:00, 183.95it/s]

[Feature Set: xydi_3] Epoch [42/250] - Avg Loss: 0.1731

Epoch 43/250: 100% | 570/570 [00:03<00:00, 182.27it/s]

[Feature Set: xydi_3] Epoch [43/250] - Avg Loss: 0.1461

Epoch 44/250: 100% | 570/570 [00:03<00:00, 180.79it/s]

[Feature Set: xydi_3] Epoch [44/250] - Avg Loss: 0.1679

Epoch 45/250: 100% | 570/570 [00:03<00:00, 180.99it/s]

[Feature Set: xydi_3] Epoch [45/250] - Avg Loss: 0.1348

Epoch 46/250: 100% | 570/570 [00:03<00:00, 182.97it/s]

[Feature Set: xydi_3] Epoch [46/250] - Avg Loss: 0.1064

Epoch 47/250: 100% | 570/570 [00:03<00:00, 182.24it/s]

[Feature Set: xydi_3] Epoch [47/250] - Avg Loss: 0.0997

Epoch 48/250: 100% | 570/570 [00:03<00:00, 183.47it/s]

[Feature Set: xydi_3] Epoch [48/250] - Avg Loss: 0.1335

Epoch 49/250: 100% | 570/570 [00:03<00:00, 181.76it/s]

[Feature Set: xydi_3] Epoch [49/250] - Avg Loss: 0.1113

Epoch 50/250: 100% | 570/570 [00:03<00:00, 183.10it/s]

[Feature Set: xydi_3] Epoch [50/250] - Avg Loss: 0.1478

Epoch 51/250: 100% | 570/570 [00:03<00:00, 178.93it/s]

[Feature Set: xydi_3] Epoch [51/250] - Avg Loss: 0.0741

Epoch 52/250: 100% | 570/570 [00:03<00:00, 180.27it/s]

[Feature Set: xydi_3] Epoch [52/250] - Avg Loss: 0.1516

Epoch 53/250: 100% | 570/570 [00:03<00:00, 175.07it/s]

[Feature Set: xydi_3] Epoch [53/250] - Avg Loss: 0.1047

Epoch 54/250: 100% | 570/570 [00:03<00:00, 173.13it/s]

[Feature Set: xydi_3] Epoch [54/250] - Avg Loss: 0.0674

Epoch 55/250: 100% | 570/570 [00:03<00:00, 177.59it/s]

[Feature Set: xydi_3] Epoch [55/250] - Avg Loss: 0.0887

Epoch 56/250: 100% | 570/570 [00:03<00:00, 182.31it/s]

[Feature Set: xydi_3] Epoch [56/250] - Avg Loss: 0.1348

Epoch 57/250: 100% | 570/570 [00:03<00:00, 182.20it/s]

[Feature Set: xydi_3] Epoch [57/250] - Avg Loss: 0.1659

Epoch 58/250: 100% | 570/570 [00:03<00:00, 183.26it/s]

[Feature Set: xydi_3] Epoch [58/250] - Avg Loss: 0.1047

Epoch 59/250: 100% | 570/570 [00:03<00:00, 181.26it/s]

[Feature Set: xydi_3] Epoch [59/250] - Avg Loss: 0.0749

Epoch 60/250: 100% | 570/570 [00:03<00:00, 182.49it/s]

[Feature Set: xydi_3] Epoch [60/250] - Avg Loss: 0.0499

Epoch 61/250: 100% | 570/570 [00:03<00:00, 181.71it/s]

[Feature Set: xydi_3] Epoch [61/250] - Avg Loss: 0.0599

Epoch 62/250: 100% | 570/570 [00:03<00:00, 182.75it/s]

[Feature Set: xydi_3] Epoch [62/250] - Avg Loss: 0.0929

Epoch 63/250: 100% | 570/570 [00:03<00:00, 181.16it/s]

[Feature Set: xydi_3] Epoch [63/250] - Avg Loss: 0.0775

Epoch 64/250: 100% | 570/570 [00:03<00:00, 183.01it/s]

[Feature Set: xydi_3] Epoch [64/250] - Avg Loss: 0.0833

Epoch 65/250: 100% | 570/570 [00:03<00:00, 181.50it/s]

[Feature Set: xydi_3] Epoch [65/250] - Avg Loss: 0.0553

Epoch 66/250: 100% | 570/570 [00:03<00:00, 183.06it/s]

[Feature Set: xydi_3] Epoch [66/250] - Avg Loss: 0.0783

Epoch 67/250: 100% | 570/570 [00:03<00:00, 175.63it/s]

[Feature Set: xydi_3] Epoch [67/250] - Avg Loss: 0.1259

Epoch 68/250: 100% | 570/570 [00:03<00:00, 174.63it/s]

[Feature Set: xydi_3] Epoch [68/250] - Avg Loss: 0.0846

Epoch 69/250: 100% | 570/570 [00:03<00:00, 182.50it/s]

[Feature Set: xydi_3] Epoch [69/250] - Avg Loss: 0.0728

Epoch 70/250: 100% | 570/570 [00:03<00:00, 182.25it/s]

[Feature Set: xydi_3] Epoch [70/250] - Avg Loss: 0.0406

Epoch 71/250: 100% | 570/570 [00:03<00:00, 182.86it/s]

[Feature Set: xydi_3] Epoch [71/250] - Avg Loss: 0.0457

Epoch 72/250: 100% | 570/570 [00:03<00:00, 181.30it/s]

[Feature Set: xydi_3] Epoch [72/250] - Avg Loss: 0.1263

Epoch 73/250: 100% | 570/570 [00:03<00:00, 183.54it/s]

[Feature Set: xydi_3] Epoch [73/250] - Avg Loss: 0.0786

Epoch 74/250: 100% | 570/570 [00:03<00:00, 181.96it/s]

[Feature Set: xydi_3] Epoch [74/250] - Avg Loss: 0.0843

Epoch 75/250: 100% | 570/570 [00:03<00:00, 183.61it/s]

[Feature Set: xydi_3] Epoch [75/250] - Avg Loss: 0.0717

Epoch 76/250: 100% | 570/570 [00:03<00:00, 178.31it/s]

[Feature Set: xydi_3] Epoch [76/250] - Avg Loss: 0.0795

Epoch 77/250: 100% | 570/570 [00:03<00:00, 184.08it/s]

[Feature Set: xydi_3] Epoch [77/250] - Avg Loss: 0.0370

Epoch 78/250: 100% | 570/570 [00:03<00:00, 182.43it/s]

[Feature Set: xydi_3] Epoch [78/250] - Avg Loss: 0.0267

Epoch 79/250: 100% | 570/570 [00:03<00:00, 183.39it/s]

[Feature Set: xydi_3] Epoch [79/250] - Avg Loss: 0.0608

Epoch 80/250: 100% | 570/570 [00:03<00:00, 182.09it/s]

[Feature Set: xydi_3] Epoch [80/250] - Avg Loss: 0.0894

Epoch 81/250: 100% | 570/570 [00:03<00:00, 182.29it/s]

[Feature Set: xydi_3] Epoch [81/250] - Avg Loss: 0.0288

Epoch 82/250: 100% | 570/570 [00:03<00:00, 181.91it/s]

[Feature Set: xydi_3] Epoch [82/250] - Avg Loss: 0.0666

Epoch 83/250: 100% | 570/570 [00:03<00:00, 183.01it/s]

[Feature Set: xydi_3] Epoch [83/250] - Avg Loss: 0.0619

Epoch 84/250: 100% | 570/570 [00:03<00:00, 167.00it/s]

[Feature Set: xydi_3] Epoch [84/250] - Avg Loss: 0.0468

Epoch 85/250: 100% | 570/570 [00:03<00:00, 174.25it/s]

[Feature Set: xydi_3] Epoch [85/250] - Avg Loss: 0.1036

Epoch 86/250: 100% | 570/570 [00:03<00:00, 181.31it/s]

[Feature Set: xydi_3] Epoch [86/250] - Avg Loss: 0.0528

Epoch 87/250: 100% | 570/570 [00:03<00:00, 180.00it/s]

[Feature Set: xydi_3] Epoch [87/250] - Avg Loss: 0.0706

Epoch 88/250: 100% | 570/570 [00:03<00:00, 183.25it/s]

[Feature Set: xydi_3] Epoch [88/250] - Avg Loss: 0.0421

Epoch 89/250: 100% | 570/570 [00:03<00:00, 179.82it/s]

[Feature Set: xydi_3] Epoch [89/250] - Avg Loss: 0.0515

Epoch 90/250: 100% | 570/570 [00:03<00:00, 183.49it/s]

[Feature Set: xydi_3] Epoch [90/250] - Avg Loss: 0.0852

Epoch 91/250: 100% | 570/570 [00:03<00:00, 181.95it/s]

[Feature Set: xydi_3] Epoch [91/250] - Avg Loss: 0.0614

Epoch 92/250: 100% | 570/570 [00:03<00:00, 182.99it/s]

[Feature Set: xydi_3] Epoch [92/250] - Avg Loss: 0.0549

Epoch 93/250: 100% | 570/570 [00:03<00:00, 181.92it/s]

[Feature Set: xydi_3] Epoch [93/250] - Avg Loss: 0.0513

Epoch 94/250: 100% | 570/570 [00:03<00:00, 176.68it/s]

[Feature Set: xydi_3] Epoch [94/250] - Avg Loss: 0.0341

Epoch 95/250: 100% | 570/570 [00:03<00:00, 178.41it/s]

[Feature Set: xydi_3] Epoch [95/250] - Avg Loss: 0.0853

Epoch 96/250: 100% | 570/570 [00:03<00:00, 182.47it/s]

[Feature Set: xydi_3] Epoch [96/250] - Avg Loss: 0.0217

Epoch 97/250: 100% | 570/570 [00:03<00:00, 180.62it/s]

[Feature Set: xydi_3] Epoch [97/250] - Avg Loss: 0.0209

Epoch 98/250: 100% | 570/570 [00:03<00:00, 176.83it/s]

[Feature Set: xydi_3] Epoch [98/250] - Avg Loss: 0.1031

Epoch 99/250: 100% | 570/570 [00:03<00:00, 183.51it/s]

[Feature Set: xydi_3] Epoch [99/250] - Avg Loss: 0.0903

Epoch 100/250: 100% | 570/570 [00:03<00:00, 172.42it/s]

[Feature Set: xydi_3] Epoch [100/250] - Avg Loss: 0.0229

Epoch 101/250: 100% | 570/570 [00:03<00:00, 178.31it/s]

[Feature Set: xydi_3] Epoch [101/250] - Avg Loss: 0.0157

Epoch 102/250: 100% | 570/570 [00:03<00:00, 178.17it/s]

[Feature Set: xydi_3] Epoch [102/250] - Avg Loss: 0.0544

Epoch 103/250: 100% | 570/570 [00:03<00:00, 179.17it/s]

[Feature Set: xydi_3] Epoch [103/250] - Avg Loss: 0.0684

Epoch 104/250: 100% | 570/570 [00:03<00:00, 183.35it/s]

[Feature Set: xydi_3] Epoch [104/250] - Avg Loss: 0.0315

Epoch 105/250: 100% | 570/570 [00:03<00:00, 180.10it/s]

[Feature Set: xydi_3] Epoch [105/250] - Avg Loss: 0.0607

Epoch 106/250: 100% | 570/570 [00:03<00:00, 177.80it/s]

[Feature Set: xydi_3] Epoch [106/250] - Avg Loss: 0.0137

Epoch 107/250: 100% | 570/570 [00:03<00:00, 168.08it/s]

[Feature Set: xydi_3] Epoch [107/250] - Avg Loss: 0.0274

Epoch 108/250: 100% | 570/570 [00:03<00:00, 182.44it/s]

[Feature Set: xydi_3] Epoch [108/250] - Avg Loss: 0.0173

Epoch 109/250: 100% | 570/570 [00:03<00:00, 178.76it/s]

[Feature Set: xydi_3] Epoch [109/250] - Avg Loss: 0.0259

Epoch 110/250: 100% | 570/570 [00:03<00:00, 182.66it/s]

[Feature Set: xydi_3] Epoch [110/250] - Avg Loss: 0.1026

Epoch 111/250: 100% | 570/570 [00:03<00:00, 182.30it/s]

[Feature Set: xydi_3] Epoch [111/250] - Avg Loss: 0.0300

Epoch 112/250: 100% | 570/570 [00:03<00:00, 182.90it/s]

[Feature Set: xydi_3] Epoch [112/250] - Avg Loss: 0.0191

Epoch 113/250: 100% | 570/570 [00:03<00:00, 182.40it/s]

[Feature Set: xydi_3] Epoch [113/250] - Avg Loss: 0.0101

Epoch 114/250: 100% | 570/570 [00:03<00:00, 183.46it/s]

[Feature Set: xydi_3] Epoch [114/250] - Avg Loss: 0.0510

Epoch 115/250: 100% | 570/570 [00:03<00:00, 182.26it/s]

[Feature Set: xydi_3] Epoch [115/250] - Avg Loss: 0.0570

Epoch 116/250: 100% | 570/570 [00:03<00:00, 183.39it/s]

[Feature Set: xydi_3] Epoch [116/250] - Avg Loss: 0.0201

Epoch 117/250: 100% | 570/570 [00:03<00:00, 181.69it/s]

[Feature Set: xydi_3] Epoch [117/250] - Avg Loss: 0.0156

Epoch 118/250: 100% | 570/570 [00:03<00:00, 179.97it/s]

[Feature Set: xydi_3] Epoch [118/250] - Avg Loss: 0.0135

Epoch 119/250: 100% | 570/570 [00:03<00:00, 181.35it/s]

[Feature Set: xydi_3] Epoch [119/250] - Avg Loss: 0.0363

Epoch 120/250: 100% | 570/570 [00:03<00:00, 179.69it/s]

[Feature Set: xydi_3] Epoch [120/250] - Avg Loss: 0.0839

Epoch 121/250: 100% | 570/570 [00:03<00:00, 182.25it/s]

[Feature Set: xydi_3] Epoch [121/250] - Avg Loss: 0.0375

Epoch 122/250: 100% | 570/570 [00:03<00:00, 183.72it/s]

[Feature Set: xydi_3] Epoch [122/250] - Avg Loss: 0.0576

Epoch 123/250: 100% | 570/570 [00:03<00:00, 183.20it/s]

[Feature Set: xydi_3] Epoch [123/250] - Avg Loss: 0.0392

Epoch 124/250: 100% | 570/570 [00:03<00:00, 154.35it/s]

[Feature Set: xydi_3] Epoch [124/250] - Avg Loss: 0.0599

Epoch 125/250: 100% | 570/570 [00:03<00:00, 150.00it/s]

[Feature Set: xydi_3] Epoch [125/250] - Avg Loss: 0.0110

Epoch 126/250: 100% | 570/570 [00:03<00:00, 176.91it/s]

[Feature Set: xydi_3] Epoch [126/250] - Avg Loss: 0.0381

Epoch 127/250: 100% | 570/570 [00:03<00:00, 178.36it/s]

[Feature Set: xydi_3] Epoch [127/250] - Avg Loss: 0.0716

Epoch 128/250: 100% | 570/570 [00:03<00:00, 181.72it/s]

[Feature Set: xydi_3] Epoch [128/250] - Avg Loss: 0.0585

Epoch 129/250: 100% | 570/570 [00:03<00:00, 178.04it/s]

[Feature Set: xydi_3] Epoch [129/250] - Avg Loss: 0.0153

Epoch 130/250: 100% | 570/570 [00:03<00:00, 169.78it/s]

[Feature Set: xydi_3] Epoch [130/250] - Avg Loss: 0.0098

Epoch 131/250: 100% | 570/570 [00:03<00:00, 173.16it/s]

[Feature Set: xydi_3] Epoch [131/250] - Avg Loss: 0.0260

Epoch 132/250: 100% | 570/570 [00:03<00:00, 177.27it/s]

[Feature Set: xydi_3] Epoch [132/250] - Avg Loss: 0.0289

Epoch 133/250: 100% | 570/570 [00:03<00:00, 180.34it/s]

[Feature Set: xydi_3] Epoch [133/250] - Avg Loss: 0.1080

Epoch 134/250: 100% | 570/570 [00:03<00:00, 182.21it/s]

[Feature Set: xydi_3] Epoch [134/250] - Avg Loss: 0.0677

Epoch 135/250: 100% | 570/570 [00:03<00:00, 182.57it/s]

[Feature Set: xydi_3] Epoch [135/250] - Avg Loss: 0.0172

Epoch 136/250: 100% | 570/570 [00:03<00:00, 179.17it/s]

[Feature Set: xydi_3] Epoch [136/250] - Avg Loss: 0.0129

Epoch 137/250: 100% | 570/570 [00:03<00:00, 182.09it/s]

[Feature Set: xydi_3] Epoch [137/250] - Avg Loss: 0.0379

Epoch 138/250: 100% | 570/570 [00:03<00:00, 176.29it/s]

[Feature Set: xydi_3] Epoch [138/250] - Avg Loss: 0.0098

Epoch 139/250: 100% | 570/570 [00:03<00:00, 182.80it/s]

[Feature Set: xydi_3] Epoch [139/250] - Avg Loss: 0.0042

Epoch 140/250: 100% | 570/570 [00:03<00:00, 181.67it/s]

[Feature Set: xydi_3] Epoch [140/250] - Avg Loss: 0.0310

Epoch 141/250: 100% | 570/570 [00:03<00:00, 183.04it/s]

[Feature Set: xydi_3] Epoch [141/250] - Avg Loss: 0.0910

Epoch 142/250: 100% | 570/570 [00:03<00:00, 180.58it/s]

[Feature Set: xydi_3] Epoch [142/250] - Avg Loss: 0.0397

Epoch 143/250: 100% | 570/570 [00:03<00:00, 181.50it/s]

[Feature Set: xydi_3] Epoch [143/250] - Avg Loss: 0.0153

Epoch 144/250: 100% | 570/570 [00:03<00:00, 176.75it/s]

[Feature Set: xydi_3] Epoch [144/250] - Avg Loss: 0.0152

Epoch 145/250: 100% | 570/570 [00:03<00:00, 183.46it/s]

[Feature Set: xydi_3] Epoch [145/250] - Avg Loss: 0.0370

Epoch 146/250: 100% | 570/570 [00:03<00:00, 181.25it/s]

[Feature Set: xydi_3] Epoch [146/250] - Avg Loss: 0.0510

Epoch 147/250: 100% | 570/570 [00:03<00:00, 182.96it/s]

[Feature Set: xydi_3] Epoch [147/250] - Avg Loss: 0.0198

Epoch 148/250: 100% | 570/570 [00:03<00:00, 182.56it/s]

[Feature Set: xydi_3] Epoch [148/250] - Avg Loss: 0.0062

Epoch 149/250: 100% | 570/570 [00:03<00:00, 182.83it/s]

[Feature Set: xydi_3] Epoch [149/250] - Avg Loss: 0.0170

Epoch 150/250: 100% | 570/570 [00:03<00:00, 174.16it/s]

[Feature Set: xydi_3] Epoch [150/250] - Avg Loss: 0.0493

Epoch 151/250: 100% | 570/570 [00:03<00:00, 175.21it/s]

[Feature Set: xydi_3] Epoch [151/250] - Avg Loss: 0.0151

Epoch 152/250: 100% | 570/570 [00:03<00:00, 179.72it/s]

[Feature Set: xydi_3] Epoch [152/250] - Avg Loss: 0.0206

Epoch 153/250: 100% | 570/570 [00:03<00:00, 183.51it/s]

[Feature Set: xydi_3] Epoch [153/250] - Avg Loss: 0.0161

Epoch 154/250: 100% | 570/570 [00:03<00:00, 182.39it/s]

[Feature Set: xydi_3] Epoch [154/250] - Avg Loss: 0.0479

Epoch 155/250: 100% | 570/570 [00:03<00:00, 183.05it/s]

[Feature Set: xydi_3] Epoch [155/250] - Avg Loss: 0.0524

Epoch 156/250: 100% | 570/570 [00:03<00:00, 182.68it/s]

[Feature Set: xydi_3] Epoch [156/250] - Avg Loss: 0.0272

Epoch 157/250: 100% | 570/570 [00:03<00:00, 180.76it/s]

[Feature Set: xydi_3] Epoch [157/250] - Avg Loss: 0.0256

Epoch 158/250: 100% | 570/570 [00:03<00:00, 182.34it/s]

[Feature Set: xydi_3] Epoch [158/250] - Avg Loss: 0.0451

Epoch 159/250: 100% | 570/570 [00:03<00:00, 182.65it/s]

[Feature Set: xydi_3] Epoch [159/250] - Avg Loss: 0.0340

Epoch 160/250: 100% | 570/570 [00:03<00:00, 182.12it/s]

[Feature Set: xydi_3] Epoch [160/250] - Avg Loss: 0.0111

Epoch 161/250: 100% | 570/570 [00:03<00:00, 182.67it/s]

[Feature Set: xydi_3] Epoch [161/250] - Avg Loss: 0.0415

Epoch 162/250: 100% | 570/570 [00:03<00:00, 182.23it/s]

[Feature Set: xydi_3] Epoch [162/250] - Avg Loss: 0.0975

Epoch 163/250: 100% | 570/570 [00:03<00:00, 182.83it/s]

[Feature Set: xydi_3] Epoch [163/250] - Avg Loss: 0.0184

Epoch 164/250: 100% | 570/570 [00:03<00:00, 180.31it/s]

[Feature Set: xydi_3] Epoch [164/250] - Avg Loss: 0.0141

Epoch 165/250: 100% | 570/570 [00:03<00:00, 172.28it/s]

[Feature Set: xydi_3] Epoch [165/250] - Avg Loss: 0.0117

Epoch 166/250: 100% | 570/570 [00:03<00:00, 182.93it/s]

[Feature Set: xydi_3] Epoch [166/250] - Avg Loss: 0.0204

Epoch 167/250: 100% | 570/570 [00:03<00:00, 181.84it/s]

[Feature Set: xydi_3] Epoch [167/250] - Avg Loss: 0.0438

Epoch 168/250: 100% | 570/570 [00:03<00:00, 183.12it/s]

[Feature Set: xydi_3] Epoch [168/250] - Avg Loss: 0.0206

Epoch 169/250: 100% | 570/570 [00:03<00:00, 181.96it/s]

[Feature Set: xydi_3] Epoch [169/250] - Avg Loss: 0.0054

Epoch 170/250: 100% | 570/570 [00:03<00:00, 183.35it/s]

[Feature Set: xydi_3] Epoch [170/250] - Avg Loss: 0.0024

Epoch 171/250: 100% | 570/570 [00:03<00:00, 181.71it/s]

[Feature Set: xydi_3] Epoch [171/250] - Avg Loss: 0.0034

Epoch 172/250: 100% | 570/570 [00:03<00:00, 183.17it/s]

[Feature Set: xydi_3] Epoch [172/250] - Avg Loss: 0.0594

Epoch 173/250: 100% | 570/570 [00:03<00:00, 181.95it/s]

[Feature Set: xydi_3] Epoch [173/250] - Avg Loss: 0.0454

Epoch 174/250: 100% | 570/570 [00:03<00:00, 183.76it/s]

[Feature Set: xydi_3] Epoch [174/250] - Avg Loss: 0.0132

Epoch 175/250: 100% | 570/570 [00:03<00:00, 182.67it/s]

[Feature Set: xydi_3] Epoch [175/250] - Avg Loss: 0.0921

Epoch 176/250: 100% | 570/570 [00:03<00:00, 183.12it/s]

[Feature Set: xydi_3] Epoch [176/250] - Avg Loss: 0.0213

Epoch 177/250: 100% | 570/570 [00:03<00:00, 181.75it/s]

[Feature Set: xydi_3] Epoch [177/250] - Avg Loss: 0.0263

Epoch 178/250: 100% | 570/570 [00:03<00:00, 174.46it/s]

[Feature Set: xydi_3] Epoch [178/250] - Avg Loss: 0.0145

Epoch 179/250: 100% | 570/570 [00:03<00:00, 178.45it/s]

[Feature Set: xydi_3] Epoch [179/250] - Avg Loss: 0.0048

Epoch 180/250: 100% | 570/570 [00:03<00:00, 183.18it/s]

[Feature Set: xydi_3] Epoch [180/250] - Avg Loss: 0.0268

Epoch 181/250: 100% | 570/570 [00:03<00:00, 182.29it/s]

[Feature Set: xydi_3] Epoch [181/250] - Avg Loss: 0.0623

Epoch 182/250: 100% | 570/570 [00:03<00:00, 179.26it/s]

[Feature Set: xydi_3] Epoch [182/250] - Avg Loss: 0.0517

Epoch 183/250: 100% | 570/570 [00:03<00:00, 181.56it/s]

[Feature Set: xydi_3] Epoch [183/250] - Avg Loss: 0.0203

Epoch 184/250: 100% | 570/570 [00:03<00:00, 183.91it/s]

[Feature Set: xydi_3] Epoch [184/250] - Avg Loss: 0.0406

Epoch 185/250: 100% | 570/570 [00:03<00:00, 182.76it/s]

[Feature Set: xydi_3] Epoch [185/250] - Avg Loss: 0.0425

Epoch 186/250: 100% | 570/570 [00:03<00:00, 183.46it/s]

[Feature Set: xydi_3] Epoch [186/250] - Avg Loss: 0.0161

Epoch 187/250: 100% | 570/570 [00:03<00:00, 182.47it/s]

[Feature Set: xydi_3] Epoch [187/250] - Avg Loss: 0.0533

Epoch 188/250: 100% | 570/570 [00:03<00:00, 183.83it/s]

[Feature Set: xydi_3] Epoch [188/250] - Avg Loss: 0.0251

Epoch 189/250: 100% | 570/570 [00:03<00:00, 182.06it/s]

[Feature Set: xydi_3] Epoch [189/250] - Avg Loss: 0.0197

Epoch 190/250: 100% | 570/570 [00:03<00:00, 183.15it/s]

[Feature Set: xydi_3] Epoch [190/250] - Avg Loss: 0.0067

Epoch 191/250: 100% | 570/570 [00:03<00:00, 182.41it/s]

[Feature Set: xydi_3] Epoch [191/250] - Avg Loss: 0.0105

Epoch 192/250: 100% | 570/570 [00:03<00:00, 183.33it/s]

[Feature Set: xydi_3] Epoch [192/250] - Avg Loss: 0.0064

Epoch 193/250: 100% | 570/570 [00:03<00:00, 182.45it/s]

[Feature Set: xydi_3] Epoch [193/250] - Avg Loss: 0.0095

Epoch 194/250: 100% | 570/570 [00:03<00:00, 183.28it/s]

[Feature Set: xydi_3] Epoch [194/250] - Avg Loss: 0.0399

Epoch 195/250: 100% | 570/570 [00:03<00:00, 179.48it/s]

[Feature Set: xydi_3] Epoch [195/250] - Avg Loss: 0.0329

Epoch 196/250: 100% | 570/570 [00:03<00:00, 176.88it/s]

[Feature Set: xydi_3] Epoch [196/250] - Avg Loss: 0.0083

Epoch 197/250: 100% | 570/570 [00:03<00:00, 174.27it/s]

[Feature Set: xydi_3] Epoch [197/250] - Avg Loss: 0.0262

Epoch 198/250: 100% | 570/570 [00:03<00:00, 179.37it/s]

[Feature Set: xydi_3] Epoch [198/250] - Avg Loss: 0.0236

Epoch 199/250: 100% | 570/570 [00:03<00:00, 182.03it/s]

[Feature Set: xydi_3] Epoch [199/250] - Avg Loss: 0.0504

Epoch 200/250: 100% | 570/570 [00:03<00:00, 182.88it/s]

[Feature Set: xydi_3] Epoch [200/250] - Avg Loss: 0.0224

Epoch 201/250: 100% | 570/570 [00:03<00:00, 182.00it/s]

[Feature Set: xydi_3] Epoch [201/250] - Avg Loss: 0.0043

Epoch 202/250: 100% | 570/570 [00:03<00:00, 183.45it/s]

[Feature Set: xydi_3] Epoch [202/250] - Avg Loss: 0.0032

Epoch 203/250: 100% | 570/570 [00:03<00:00, 180.51it/s]

[Feature Set: xydi_3] Epoch [203/250] - Avg Loss: 0.0020

Epoch 204/250: 100% | 570/570 [00:03<00:00, 183.13it/s]

[Feature Set: xydi_3] Epoch [204/250] - Avg Loss: 0.0447

Epoch 205/250: 100% | 570/570 [00:03<00:00, 181.91it/s]

[Feature Set: xydi_3] Epoch [205/250] - Avg Loss: 0.0334

Epoch 206/250: 100% | 570/570 [00:03<00:00, 183.60it/s]

[Feature Set: xydi_3] Epoch [206/250] - Avg Loss: 0.0435

Epoch 207/250: 100% | 570/570 [00:03<00:00, 182.38it/s]

[Feature Set: xydi_3] Epoch [207/250] - Avg Loss: 0.0048

Epoch 208/250: 100% | 570/570 [00:03<00:00, 183.12it/s]

[Feature Set: xydi_3] Epoch [208/250] - Avg Loss: 0.0019

Epoch 209/250: 100% | 570/570 [00:03<00:00, 181.27it/s]

[Feature Set: xydi_3] Epoch [209/250] - Avg Loss: 0.0018

Epoch 210/250: 100% | 570/570 [00:03<00:00, 182.37it/s]

[Feature Set: xydi_3] Epoch [210/250] - Avg Loss: 0.0029

Epoch 211/250: 100% | 570/570 [00:03<00:00, 181.98it/s]

[Feature Set: xydi_3] Epoch [211/250] - Avg Loss: 0.0561

Epoch 212/250: 100% | 570/570 [00:03<00:00, 183.75it/s]

[Feature Set: xydi_3] Epoch [212/250] - Avg Loss: 0.0207

Epoch 213/250: 100% | 570/570 [00:03<00:00, 182.58it/s]

[Feature Set: xydi_3] Epoch [213/250] - Avg Loss: 0.0381

Epoch 214/250: 100% | 570/570 [00:03<00:00, 177.68it/s]

[Feature Set: xydi_3] Epoch [214/250] - Avg Loss: 0.0093

Epoch 215/250: 100% | 570/570 [00:03<00:00, 174.75it/s]

[Feature Set: xydi_3] Epoch [215/250] - Avg Loss: 0.0130

Epoch 216/250: 100% | 570/570 [00:03<00:00, 178.88it/s]

[Feature Set: xydi_3] Epoch [216/250] - Avg Loss: 0.0220

Epoch 217/250: 100% | 570/570 [00:03<00:00, 178.20it/s]

[Feature Set: xydi_3] Epoch [217/250] - Avg Loss: 0.0307

Epoch 218/250: 100% | 570/570 [00:03<00:00, 181.72it/s]

[Feature Set: xydi_3] Epoch [218/250] - Avg Loss: 0.0456

Epoch 219/250: 100% | 570/570 [00:03<00:00, 182.60it/s]

[Feature Set: xydi_3] Epoch [219/250] - Avg Loss: 0.0221

Epoch 220/250: 100% | 570/570 [00:03<00:00, 182.24it/s]

[Feature Set: xydi_3] Epoch [220/250] - Avg Loss: 0.0082

Epoch 221/250: 100% | 570/570 [00:03<00:00, 182.90it/s]

[Feature Set: xydi_3] Epoch [221/250] - Avg Loss: 0.0161

Epoch 222/250: 100% | 570/570 [00:03<00:00, 176.83it/s]

[Feature Set: xydi_3] Epoch [222/250] - Avg Loss: 0.0141

Epoch 223/250: 100% | 570/570 [00:03<00:00, 178.99it/s]

[Feature Set: xydi_3] Epoch [223/250] - Avg Loss: 0.0364

Epoch 224/250: 100% | 570/570 [00:03<00:00, 179.13it/s]

[Feature Set: xydi_3] Epoch [224/250] - Avg Loss: 0.0162

Epoch 225/250: 100% | 570/570 [00:03<00:00, 179.14it/s]

[Feature Set: xydi_3] Epoch [225/250] - Avg Loss: 0.0235

Epoch 226/250: 100% | 570/570 [00:03<00:00, 176.54it/s]

[Feature Set: xydi_3] Epoch [226/250] - Avg Loss: 0.0186

Epoch 227/250: 100% | 570/570 [00:03<00:00, 182.63it/s]

[Feature Set: xydi_3] Epoch [227/250] - Avg Loss: 0.0047

Epoch 228/250: 100% | 570/570 [00:03<00:00, 182.87it/s]

[Feature Set: xydi_3] Epoch [228/250] - Avg Loss: 0.0184

Epoch 229/250: 100% | 570/570 [00:03<00:00, 164.93it/s]

[Feature Set: xydi_3] Epoch [229/250] - Avg Loss: 0.0136

Epoch 230/250: 100% | 570/570 [00:03<00:00, 181.37it/s]

[Feature Set: xydi_3] Epoch [230/250] - Avg Loss: 0.0025

Epoch 231/250: 100% | 570/570 [00:03<00:00, 183.57it/s]

[Feature Set: xydi_3] Epoch [231/250] - Avg Loss: 0.1120

Epoch 232/250: 100% | 570/570 [00:03<00:00, 180.31it/s]

[Feature Set: xydi_3] Epoch [232/250] - Avg Loss: 0.0623

Epoch 233/250: 100% | 570/570 [00:03<00:00, 180.53it/s]

[Feature Set: xydi_3] Epoch [233/250] - Avg Loss: 0.0383

Epoch 234/250: 100% | 570/570 [00:03<00:00, 182.27it/s]

[Feature Set: xydi_3] Epoch [234/250] - Avg Loss: 0.0761

Epoch 235/250: 100% | 570/570 [00:03<00:00, 184.09it/s]

[Feature Set: xydi_3] Epoch [235/250] - Avg Loss: 0.0117

Epoch 236/250: 100% | 570/570 [00:03<00:00, 182.23it/s]

[Feature Set: xydi_3] Epoch [236/250] - Avg Loss: 0.0362

Epoch 237/250: 100% | 570/570 [00:03<00:00, 184.10it/s]

[Feature Set: xydi_3] Epoch [237/250] - Avg Loss: 0.0275

Epoch 238/250: 100% | 570/570 [00:03<00:00, 182.66it/s]

[Feature Set: xydi_3] Epoch [238/250] - Avg Loss: 0.0042

Epoch 239/250: 100% | 570/570 [00:03<00:00, 181.92it/s]

[Feature Set: xydi_3] Epoch [239/250] - Avg Loss: 0.0062

Epoch 240/250: 100% | 570/570 [00:03<00:00, 182.94it/s]

[Feature Set: xydi_3] Epoch [240/250] - Avg Loss: 0.0029

Epoch 241/250: 100% | 570/570 [00:03<00:00, 182.01it/s]

[Feature Set: xydi_3] Epoch [241/250] - Avg Loss: 0.0096

Epoch 242/250: 100% | 570/570 [00:03<00:00, 179.20it/s]

[Feature Set: xydi_3] Epoch [242/250] - Avg Loss: 0.0308

Epoch 243/250: 100% | 570/570 [00:03<00:00, 183.52it/s]

[Feature Set: xydi_3] Epoch [243/250] - Avg Loss: 0.0162

Epoch 244/250: 100% | 570/570 [00:03<00:00, 178.05it/s]

[Feature Set: xydi_3] Epoch [244/250] - Avg Loss: 0.0227

Epoch 245/250: 100% | 570/570 [00:03<00:00, 182.25it/s]

[Feature Set: xydi_3] Epoch [245/250] - Avg Loss: 0.0471

Epoch 246/250: 100% | 570/570 [00:03<00:00, 176.83it/s]

[Feature Set: xydi_3] Epoch [246/250] - Avg Loss: 0.0497

Epoch 247/250: 100% | 570/570 [00:03<00:00, 176.36it/s]

[Feature Set: xydi_3] Epoch [247/250] - Avg Loss: 0.0263

Epoch 248/250: 100% | 570/570 [00:03<00:00, 180.91it/s]

[Feature Set: xydi_3] Epoch [248/250] - Avg Loss: 0.0164

Epoch 249/250: 100% | 570/570 [00:03<00:00, 181.28it/s]

[Feature Set: xydi_3] Epoch [249/250] - Avg Loss: 0.0037

Epoch 250/250: 100% | 570/570 [00:03<00:00, 183.60it/s]

[Feature Set: xydi_3] Epoch [250/250] - Avg Loss: 0.0253

[Eval] xydi_3: 100%| | 143/143 [00:00<00:00, 309.16it/s]

[8]: df_results = pd.DataFrame(results)
print(df_results)

Feature_Set Accuracy Macro_F1 Weighted_F1 0 xydi_3 0.615385 0.556777 0.62102