

```
1 C:\ProgramData\miniconda3\envs\mne\python.exe "C:\Academics\NYU\Sem 2\NI\eeg-pred\ad-predictor\train_kfold.py"
2 Now using CUDA device 0
3 Enabling CUDA with 5.00 GB available memory
4 EEGNet(
5     (conv1): Conv2d(1, 25, kernel_size=(1, 64), stride=(1, 1), padding=(0, 32))
6     (batchnorm1): BatchNorm2d(25, eps=1e-05, momentum=0.1, affine=True, track_running_stats=True)
7     (depthwise_conv1): Conv2d(25, 125, kernel_size=(19, 1), stride=(1, 1), groups=25, bias=False)
8     (batchnorm2): BatchNorm2d(125, eps=1e-05, momentum=0.1, affine=True, track_running_stats=True)
9     (activation1): ELU(alpha=1.0)
10    (avgpool1): AvgPool2d(kernel_size=(1, 4), stride=(1, 4), padding=0)
11    (dropout1): Dropout(p=0.5, inplace=False)
12    (separable_conv2): Conv2d(125, 100, kernel_size=(1, 16), stride=(1, 1), padding=(0, 8))
13    (batchnorm3): BatchNorm2d(100, eps=1e-05, momentum=0.1, affine=True, track_running_stats=True)
14    (activation2): ELU(alpha=1.0)
15    (avgpool2): AvgPool2d(kernel_size=(1, 8), stride=(1, 8), padding=0)
16    (dropout2): Dropout(p=0.5, inplace=False)
17    (flatten): Flatten(start_dim=1, end_dim=-1)
18    (dense): Linear(in_features=4400, out_features=21, bias=True)
19    (classifier): Linear(in_features=21, out_features=3, bias=True)
20 )
21 Model params: num_channels=19, timepoints=1425, num_classes=3, F1=25, D=5, F2=100, dropout_rate=0.5
22 Trainable params: 297087
23
24 Before Balancing
25 A: 1591, C: 1274, F: 836
26 After Balancing
27 A: 1055, C: 1055, F: 836
28
```

```
29 Fold 1/5
30 Train dataloader: 118 batches
31 Valid dataloader: 30 batches
32
33 Fold 1/5, Epoch 1/300, Train Loss: 172.11871033906937
, Valid Loss: 205.04937529563904, Accuracy: 0.
357627118644, Time Taken: 45.76s, Learning Rate:
0.01 -> 0.0099934
34 Fold 1/5, Epoch 2/300, Train Loss: 135.0739598274231
, Valid Loss: 340.8574757575989, Accuracy: 0.
3576271186440678, Time Taken: 47.42s, Learning Rate:
0.0099934 -> 0.0099868
35 Fold 1/5, Epoch 3/300, Train Loss: 138.6285548210144
, Valid Loss: 109.38665306568146, Accuracy: 0.
3576271186440678, Time Taken: 51.72s, Learning Rate:
0.0099868 -> 0.0099802
36 Fold 1/5, Epoch 4/300, Train Loss: 134.0626803636551
, Valid Loss: 68.80601215362549, Accuracy: 0.
3576271186440678, Time Taken: 47.45s, Learning Rate:
0.0099802 -> 0.0099736
37 Fold 1/5, Epoch 5/300, Train Loss: 133.29705607891083
, Valid Loss: 50.76426589488983, Accuracy: 0.
3576271186440678, Time Taken: 46.41s, Learning Rate:
0.0099736 -> 0.009966999999999998
38 Fold 1/5, Epoch 6/300, Train Loss: 130.22776991128922
, Valid Loss: 90.7949469089508, Accuracy: 0.
3576271186440678, Time Taken: 46.25s, Learning Rate:
0.009966999999999998 -> 0.009960399999999998
39 Fold 1/5, Epoch 7/300, Train Loss: 130.0680176615715
, Valid Loss: 87.01952564716339, Accuracy: 0.
3576271186440678, Time Taken: 45.90s, Learning Rate:
0.009960399999999998 -> 0.009953799999999997
40 Fold 1/5, Epoch 8/300, Train Loss: 128.92867988348007
, Valid Loss: 142.55873465538025, Accuracy: 0.
3576271186440678, Time Taken: 46.54s, Learning Rate:
0.009953799999999997 -> 0.009947199999999998
41 Fold 1/5, Epoch 9/300, Train Loss: 129.67607349157333
, Valid Loss: 35.23191595077515, Accuracy: 0.
3576271186440678, Time Taken: 46.47s, Learning Rate:
0.009947199999999998 -> 0.009940599999999999
42 Fold 1/5, Epoch 10/300, Train Loss: 129.
```

42 Fold 1/5, Epoch 10/300, Train Loss: 129.2601339817047, Valid Loss: 112.49629974365234, Accuracy: 0.3576271186440678, Time Taken: 46.08s, Learning Rate: 0.009940599999999999 -> 0.00993399999999998

43 Fold 1/5, Epoch 11/300, Train Loss: 129.20166951417923, Valid Loss: 103.17981231212616, Accuracy: 0.3576271186440678, Time Taken: 46.67s, Learning Rate: 0.00993399999999998 -> 0.00992739999999998

44 Fold 1/5, Epoch 12/300, Train Loss: 129.2601339817047, Valid Loss: 112.49629974365234, Accuracy: 0.3576271186440678, Time Taken: 46.16s, Learning Rate: 0.00992739999999998 -> 0.00992079999999999

45 Fold 1/5, Epoch 13/300, Train Loss: 128.1475293636322, Valid Loss: 302.5158476829529, Accuracy: 0.3576271186440678, Time Taken: 45.99s, Learning Rate: 0.00992079999999999 -> 0.00991419999999998

46 Fold 1/5, Epoch 14/300, Train Loss: 127.80418926477432, Valid Loss: 169.2330765724182, Accuracy: 0.3576271186440678, Time Taken: 46.61s, Learning Rate: 0.00991419999999998 -> 0.00990759999999997

47 Fold 1/5, Epoch 15/300, Train Loss: 122.7994676232338, Valid Loss: 12006.655380249023, Accuracy: 0.3576271186440678, Time Taken: 45.74s, Learning Rate: 0.00990759999999997 -> 0.00990099999999998

48 Fold 1/5, Epoch 16/300, Train Loss: 112.99821329116821, Valid Loss: 535.4879570007324, Accuracy: 0.3576271186440678, Time Taken: 46.24s, Learning Rate: 0.00990099999999998 -> 0.0098944

49 Fold 1/5, Epoch 17/300, Train Loss: 108.1420767903328, Valid Loss: 7609.66194152832, Accuracy: 0.3576271186440678, Time Taken: 46.17s, Learning Rate: 0.0098944 -> 0.0098878

50 Fold 1/5, Epoch 18/300, Train Loss: 102.50876438617706, Valid Loss: 4440.006141662598, Accuracy: 0.3576271186440678, Time Taken: 48.02s, Learning Rate: 0.0098878 -> 0.00988120000000001

51 Fold 1/5, Epoch 19/300, Train Loss: 95.76759824156761, Valid Loss: 10083.20785522461, Accuracy: 0.3576271186440678, Time Taken: 47.51s, Learning Rate:

```
51 0.009881200000000001 -> 0.0098746
52 Fold 1/5, Epoch 20/300, Train Loss: 91.34984773397446
, Valid Loss: 866.8724918365479, Accuracy: 0.
3576271186440678, Time Taken: 46.62s, Learning Rate:
0.0098746 -> 0.009868000000000002
53 Fold 1/5, Epoch 21/300, Train Loss: 88.30731701850891
, Valid Loss: 6277.881011962891, Accuracy: 0.
3576271186440678, Time Taken: 46.05s, Learning Rate:
0.009868000000000002 -> 0.009861400000000001
54 Fold 1/5, Epoch 22/300, Train Loss: 85.88547822833061
, Valid Loss: 13863.556640625, Accuracy: 0.
3576271186440678, Time Taken: 46.03s, Learning Rate:
0.009861400000000001 -> 0.0098548
55 Fold 1/5, Epoch 23/300, Train Loss: 74.06902912259102
, Valid Loss: 23124.528564453125, Accuracy: 0.
3576271186440678, Time Taken: 46.65s, Learning Rate:
0.0098548 -> 0.009848200000000001
56 Fold 1/5, Epoch 24/300, Train Loss: 72.82314014434814
, Valid Loss: 7289.949523925781, Accuracy: 0.
3576271186440678, Time Taken: 46.19s, Learning Rate:
0.009848200000000001 -> 0.0098416
57 Fold 1/5, Epoch 25/300, Train Loss: 66.78310233354568
, Valid Loss: 3894.7938385009766, Accuracy: 0.
3576271186440678, Time Taken: 46.42s, Learning Rate:
0.0098416 -> 0.009835
58 Fold 1/5, Epoch 26/300, Train Loss: 69.37481635808945
, Valid Loss: 8471.088943481445, Accuracy: 0.
3576271186440678, Time Taken: 46.53s, Learning Rate:
0.009835 -> 0.0098284
59 Fold 1/5, Epoch 27/300, Train Loss: 66.48228710889816
, Valid Loss: 3389.4817276000977, Accuracy: 0.
3576271186440678, Time Taken: 46.94s, Learning Rate:
0.0098284 -> 0.0098218
60 Fold 1/5, Epoch 28/300, Train Loss: 61.
078482270240784, Valid Loss: 29924.743530273438,
Accuracy: 0.3576271186440678, Time Taken: 46.51s,
Learning Rate: 0.0098218 -> 0.009815200000000001
61 Fold 1/5, Epoch 29/300, Train Loss: 58.80717484652996
, Valid Loss: 7576.714294433594, Accuracy: 0.
3576271186440678, Time Taken: 46.03s, Learning Rate:
0.009815200000000001 -> 0.0098086
```

```
62 Fold 1/5, Epoch 30/300, Train Loss: 54.  
91896548867226, Valid Loss: 4611.163269042969,  
Accuracy: 0.3576271186440678, Time Taken: 48.14s,  
Learning Rate: 0.0098086 -> 0.009802  
63 Fold 1/5, Epoch 31/300, Train Loss: 55.  
548244670033455, Valid Loss: 3107.8506622314453,  
Accuracy: 0.3576271186440678, Time Taken: 48.13s,  
Learning Rate: 0.009802 -> 0.0097954  
64 Fold 1/5, Epoch 32/300, Train Loss: 49.8567975088954  
, Valid Loss: 43169.61785888672, Accuracy: 0.  
2847457627118644, Time Taken: 46.86s, Learning Rate  
: 0.0097954 -> 0.0097888  
65 Fold 1/5, Epoch 33/300, Train Loss: 45.5298066586256  
, Valid Loss: 16520.097595214844, Accuracy: 0.  
3576271186440678, Time Taken: 48.87s, Learning Rate  
: 0.0097888 -> 0.0097822  
66 Fold 1/5, Epoch 34/300, Train Loss: 48.  
024514228105545, Valid Loss: 3276.012191772461,  
Accuracy: 0.3576271186440678, Time Taken: 48.77s,  
Learning Rate: 0.0097822 -> 0.009775599999999999  
67 Fold 1/5, Epoch 35/300, Train Loss: 46.  
31358602643013, Valid Loss: 2767.186668395996,  
Accuracy: 0.3576271186440678, Time Taken: 47.52s,  
Learning Rate: 0.009775599999999999 -> 0.  
009768999999999998  
68 Fold 1/5, Epoch 36/300, Train Loss: 46.  
36337438225746, Valid Loss: 16704.268646240234,  
Accuracy: 0.3576271186440678, Time Taken: 46.92s,  
Learning Rate: 0.009768999999999998 -> 0.  
009762399999999997  
69 Fold 1/5, Epoch 37/300, Train Loss: 42.  
99833405762911, Valid Loss: 8201.77571105957,  
Accuracy: 0.3576271186440678, Time Taken: 47.37s,  
Learning Rate: 0.009762399999999997 -> 0.  
009755799999999999  
70 Fold 1/5, Epoch 38/300, Train Loss: 40.  
09370926767588, Valid Loss: 3769.7207984924316,  
Accuracy: 0.3576271186440678, Time Taken: 47.70s,  
Learning Rate: 0.009755799999999999 -> 0.  
009749199999999998  
71 Fold 1/5, Epoch 39/300, Train Loss: 38.
```

```
71 79023527726531, Valid Loss: 16724.341247558594,  
    Accuracy: 0.3576271186440678, Time Taken: 50.64s,  
    Learning Rate: 0.009749199999999998 -> 0.  
    009742599999999999  
72 Fold 1/5, Epoch 40/300, Train Loss: 41.  
    18387847393751, Valid Loss: 3839.9372024536133,  
    Accuracy: 0.3576271186440678, Time Taken: 49.91s,  
    Learning Rate: 0.009742599999999999 -> 0.  
    009735999999999998  
73 Fold 1/5, Epoch 41/300, Train Loss: 38.3078379034996  
    , Valid Loss: 7567.313934326172, Accuracy: 0.  
    3576271186440678, Time Taken: 47.53s, Learning Rate  
    : 0.00973599999999998 -> 0.00972939999999997  
74 Fold 1/5, Epoch 42/300, Train Loss: 40.  
    07875002734363, Valid Loss: 9764.33187866211,  
    Accuracy: 0.3576271186440678, Time Taken: 46.99s,  
    Learning Rate: 0.00972939999999997 -> 0.  
    009722799999999997  
75 Fold 1/5, Epoch 43/300, Train Loss: 34.  
    56721702031791, Valid Loss: 246.3279767036438,  
    Accuracy: 0.37966101694915255, Time Taken: 48.15s,  
    Learning Rate: 0.00972279999999997 -> 0.  
    00971619999999998  
76 Fold 1/5, Epoch 44/300, Train Loss: 37.  
    92746839299798, Valid Loss: 772.9058618545532,  
    Accuracy: 0.3576271186440678, Time Taken: 47.45s,  
    Learning Rate: 0.00971619999999998 -> 0.  
    00970959999999997  
77 Fold 1/5, Epoch 45/300, Train Loss: 37.  
    00363679602742, Valid Loss: 1301.9578475952148,  
    Accuracy: 0.3576271186440678, Time Taken: 47.89s,  
    Learning Rate: 0.00970959999999997 -> 0.  
    00970299999999996  
78 Fold 1/5, Epoch 46/300, Train Loss: 40.  
    89843735285103, Valid Loss: 1248.2795009613037,  
    Accuracy: 0.3576271186440678, Time Taken: 47.78s,  
    Learning Rate: 0.00970299999999996 -> 0.  
    009696399999999996  
79 Fold 1/5, Epoch 47/300, Train Loss: 35.  
    37961005792022, Valid Loss: 15781.985076904297,  
    Accuracy: 0.2847457627118644, Time Taken: 45.87s,
```

```
79 Learning Rate: 0.009696399999999996 -> 0.  
009689799999999995  
80 Fold 1/5, Epoch 48/300, Train Loss: 36.  
438757540658116, Valid Loss: 2470.5107231140137,  
Accuracy: 0.3576271186440678, Time Taken: 46.58s,  
Learning Rate: 0.009689799999999995 -> 0.  
009683199999999994  
81 Fold 1/5, Epoch 49/300, Train Loss: 34.  
475975750014186, Valid Loss: 5807.082138061523,  
Accuracy: 0.3576271186440678, Time Taken: 47.39s,  
Learning Rate: 0.009683199999999994 -> 0.  
009676599999999994  
82 Fold 1/5, Epoch 50/300, Train Loss: 31.  
671417577192187, Valid Loss: 7475.924743652344,  
Accuracy: 0.2847457627118644, Time Taken: 46.14s,  
Learning Rate: 0.009676599999999994 -> 0.  
00966999999999995  
83 Fold 1/5, Epoch 51/300, Train Loss: 38.  
207580272108316, Valid Loss: 8012.737457275391,  
Accuracy: 0.3576271186440678, Time Taken: 45.77s,  
Learning Rate: 0.00966999999999995 -> 0.  
009663399999999994  
84 Fold 1/5, Epoch 52/300, Train Loss: 33.  
37548800371587, Valid Loss: 10769.989379882812,  
Accuracy: 0.3576271186440678, Time Taken: 46.82s,  
Learning Rate: 0.00966339999999994 -> 0.  
00965679999999993  
85 Fold 1/5, Epoch 53/300, Train Loss: 32.  
40333732776344, Valid Loss: 13980.120223999023,  
Accuracy: 0.3576271186440678, Time Taken: 46.37s,  
Learning Rate: 0.00965679999999993 -> 0.  
00965019999999992  
86 Fold 1/5, Epoch 54/300, Train Loss: 29.0723201520741  
, Valid Loss: 1747.5081102848053, Accuracy: 0.  
3576271186440678, Time Taken: 45.93s, Learning Rate  
: 0.00965019999999992 -> 0.00964359999999993  
87 Fold 1/5, Epoch 55/300, Train Loss: 31.  
892053022049367, Valid Loss: 11114.190795898438,  
Accuracy: 0.2847457627118644, Time Taken: 47.08s,  
Learning Rate: 0.00964359999999993 -> 0.  
00963699999999995
```

88 Fold 1/5, Epoch 56/300, Train Loss: 29.
86877356097102, Valid Loss: 740.8767242431641,
Accuracy: 0.3576271186440678, Time Taken: 46.62s,
Learning Rate: 0.00963699999999995 -> 0.
00963039999999994

89 Fold 1/5, Epoch 57/300, Train Loss: 31.
57083246228285, Valid Loss: 13530.027587890625,
Accuracy: 0.3576271186440678, Time Taken: 45.99s,
Learning Rate: 0.00963039999999994 -> 0.
00962379999999993

90 Fold 1/5, Epoch 58/300, Train Loss: 27.
938354806043208, Valid Loss: 11513.48110961914,
Accuracy: 0.2847457627118644, Time Taken: 46.31s,
Learning Rate: 0.00962379999999993 -> 0.
00961719999999992

91 Fold 1/5, Epoch 59/300, Train Loss: 26.
566847131587565, Valid Loss: 6406.763595581055,
Accuracy: 0.3576271186440678, Time Taken: 46.85s,
Learning Rate: 0.00961719999999992 -> 0.
00961059999999992

92 Fold 1/5, Epoch 60/300, Train Loss: 29.
673567640595138, Valid Loss: 2368.552745819092,
Accuracy: 0.3576271186440678, Time Taken: 46.73s,
Learning Rate: 0.00961059999999992 -> 0.
00960399999999991

93 Fold 1/5, Epoch 61/300, Train Loss: 28.3763928450644
, Valid Loss: 24286.755859375, Accuracy: 0.
2847457627118644, Time Taken: 46.95s, Learning Rate
: 0.00960399999999991 -> 0.00959739999999992

94 Fold 1/5, Epoch 62/300, Train Loss: 29.
303967696148902, Valid Loss: 4692.723663330078,
Accuracy: 0.3576271186440678, Time Taken: 47.06s,
Learning Rate: 0.00959739999999992 -> 0.
00959079999999993

95 Fold 1/5, Epoch 63/300, Train Loss: 26.
056855970527977, Valid Loss: 1458.3527183532715,
Accuracy: 0.2847457627118644, Time Taken: 46.42s,
Learning Rate: 0.00959079999999993 -> 0.
00958419999999992

96 Fold 1/5, Epoch 64/300, Train Loss: 24.
86660150019452, Valid Loss: 31011.48016357422,

```
96 Accuracy: 0.3576271186440678, Time Taken: 46.30s,
Learning Rate: 0.009584199999999992 -> 0.
009577599999999992
97 Fold 1/5, Epoch 65/300, Train Loss: 26.
674327531363815, Valid Loss: 3259.1420974731445,
Accuracy: 0.2847457627118644, Time Taken: 46.89s,
Learning Rate: 0.009577599999999992 -> 0.
009570999999999993
98 Fold 1/5, Epoch 66/300, Train Loss: 27.
60285250004381, Valid Loss: 5623.6428146362305,
Accuracy: 0.3576271186440678, Time Taken: 46.49s,
Learning Rate: 0.00957099999999993 -> 0.
009564399999999992
99 Fold 1/5, Epoch 67/300, Train Loss: 24.
90117344306782, Valid Loss: 4139.380424499512,
Accuracy: 0.2847457627118644, Time Taken: 46.85s,
Learning Rate: 0.00956439999999992 -> 0.
009557799999999993
100 Fold 1/5, Epoch 68/300, Train Loss: 25.
269255477003753, Valid Loss: 15271.443115234375,
Accuracy: 0.3576271186440678, Time Taken: 46.39s,
Learning Rate: 0.00955779999999993 -> 0.
009551199999999992
101 Fold 1/5, Epoch 69/300, Train Loss: 27.
479870861861855, Valid Loss: 7777.957931518555,
Accuracy: 0.3576271186440678, Time Taken: 46.49s,
Learning Rate: 0.00955119999999992 -> 0.
00954459999999993
102 Fold 1/5, Epoch 70/300, Train Loss: 24.
804032972082496, Valid Loss: 14042.54916381836,
Accuracy: 0.3576271186440678, Time Taken: 47.04s,
Learning Rate: 0.00954459999999993 -> 0.
00953799999999993
103 Fold 1/5, Epoch 71/300, Train Loss: 29.
226522450335324, Valid Loss: 17456.767578125,
Accuracy: 0.3576271186440678, Time Taken: 46.55s,
Learning Rate: 0.00953799999999993 -> 0.
00953139999999992
104 Fold 1/5, Epoch 72/300, Train Loss: 25.
841301643289626, Valid Loss: 24629.597564697266,
Accuracy: 0.3576271186440678, Time Taken: 46.75s,
```

```
104 Learning Rate: 0.00953139999999992 -> 0.  
00952479999999991  
105 Fold 1/5, Epoch 73/300, Train Loss: 21.  
24725927482359, Valid Loss: 24990.116455078125,  
Accuracy: 0.3576271186440678, Time Taken: 46.95s,  
Learning Rate: 0.00952479999999991 -> 0.  
00951819999999992  
106 Fold 1/5, Epoch 74/300, Train Loss: 21.  
497964496840723, Valid Loss: 7496.088684082031,  
Accuracy: 0.3576271186440678, Time Taken: 46.94s,  
Learning Rate: 0.00951819999999992 -> 0.  
00951159999999992  
107 Fold 1/5, Epoch 75/300, Train Loss: 23.8444252286572  
, Valid Loss: 817.9294204711914, Accuracy: 0.  
3576271186440678, Time Taken: 46.45s, Learning Rate  
: 0.00951159999999992 -> 0.00950499999999993  
108 Fold 1/5, Epoch 76/300, Train Loss: 21.  
205885648465483, Valid Loss: 5965.283248901367,  
Accuracy: 0.3576271186440678, Time Taken: 46.96s,  
Learning Rate: 0.0095049999999993 -> 0.  
00949839999999992  
109 Fold 1/5, Epoch 77/300, Train Loss: 23.  
738499780651182, Valid Loss: 1221.5731735229492,  
Accuracy: 0.3576271186440678, Time Taken: 46.55s,  
Learning Rate: 0.00949839999999992 -> 0.  
00949179999999993  
110 Fold 1/5, Epoch 78/300, Train Loss: 24.  
652024395763874, Valid Loss: 33630.145935058594,  
Accuracy: 0.3576271186440678, Time Taken: 46.45s,  
Learning Rate: 0.00949179999999993 -> 0.  
00948519999999992  
111 Fold 1/5, Epoch 79/300, Train Loss: 26.  
82110465178266, Valid Loss: 26492.172302246094,  
Accuracy: 0.3576271186440678, Time Taken: 47.04s,  
Learning Rate: 0.00948519999999992 -> 0.  
00947859999999993  
112 Fold 1/5, Epoch 80/300, Train Loss: 28.  
422066596453078, Valid Loss: 8362.515747070312,  
Accuracy: 0.3576271186440678, Time Taken: 46.83s,  
Learning Rate: 0.00947859999999993 -> 0.  
00947199999999993
```

113 Fold 1/5, Epoch 81/300, Train Loss: 25.
404937460436486, Valid Loss: 21934.488983154297,
Accuracy: 0.3576271186440678, Time Taken: 46.56s,
Learning Rate: 0.00947199999999993 -> 0.
00946539999999994

114 Fold 1/5, Epoch 82/300, Train Loss: 22.
46436583006289, Valid Loss: 6138.459587097168,
Accuracy: 0.3576271186440678, Time Taken: 46.94s,
Learning Rate: 0.00946539999999994 -> 0.
00945879999999995

115 Fold 1/5, Epoch 83/300, Train Loss: 17.
22124886442907, Valid Loss: 11269.704162597656,
Accuracy: 0.3576271186440678, Time Taken: 47.36s,
Learning Rate: 0.00945879999999995 -> 0.
00945219999999994

116 Fold 1/5, Epoch 84/300, Train Loss: 20.
24383711820701, Valid Loss: 3766.5252075195312,
Accuracy: 0.3576271186440678, Time Taken: 47.01s,
Learning Rate: 0.00945219999999994 -> 0.
00944559999999995

117 Fold 1/5, Epoch 85/300, Train Loss: 28.
08795350289438, Valid Loss: 14618.559143066406,
Accuracy: 0.2847457627118644, Time Taken: 47.23s,
Learning Rate: 0.00944559999999995 -> 0.
00943899999999994

118 Fold 1/5, Epoch 86/300, Train Loss: 19.
255176786216907, Valid Loss: 8101.600280761719,
Accuracy: 0.3576271186440678, Time Taken: 46.56s,
Learning Rate: 0.00943899999999994 -> 0.
00943239999999994

119 Fold 1/5, Epoch 87/300, Train Loss: 21.
686441435478628, Valid Loss: 2017.1507148742676,
Accuracy: 0.3644067796610169, Time Taken: 47.30s,
Learning Rate: 0.00943239999999994 -> 0.
00942579999999993

120 Fold 1/5, Epoch 88/300, Train Loss: 22.
941875933669508, Valid Loss: 11071.893463134766,
Accuracy: 0.3576271186440678, Time Taken: 46.60s,
Learning Rate: 0.00942579999999993 -> 0.
00941919999999992

121 Fold 1/5, Epoch 89/300, Train Loss: 26.

```
121 046127784764394, Valid Loss: 2716.7140464782715,  
    Accuracy: 0.2847457627118644, Time Taken: 46.42s,  
    Learning Rate: 0.009419199999999992 -> 0.  
    009412599999999991  
122 Fold 1/5, Epoch 90/300, Train Loss: 18.  
    077150920638815, Valid Loss: 1505.6859636306763,  
    Accuracy: 0.3576271186440678, Time Taken: 46.94s,  
    Learning Rate: 0.009412599999999991 -> 0.  
    00940599999999999  
123 Fold 1/5, Epoch 91/300, Train Loss: 20.  
    220953341340646, Valid Loss: 3939.1184158325195,  
    Accuracy: 0.2847457627118644, Time Taken: 46.55s,  
    Learning Rate: 0.00940599999999999 -> 0.  
    00939939999999999  
124 Fold 1/5, Epoch 92/300, Train Loss: 19.  
    381709646433592, Valid Loss: 3034.709087371826,  
    Accuracy: 0.3576271186440678, Time Taken: 46.39s,  
    Learning Rate: 0.00939939999999999 -> 0.  
    00939279999999999  
125 Fold 1/5, Epoch 93/300, Train Loss: 15.  
    257338433468249, Valid Loss: 21237.12139892578,  
    Accuracy: 0.2847457627118644, Time Taken: 46.18s,  
    Learning Rate: 0.00939279999999999 -> 0.  
    0093861999999999  
126 Fold 1/5, Epoch 94/300, Train Loss: 21.  
    46747828857042, Valid Loss: 11842.93408203125,  
    Accuracy: 0.3576271186440678, Time Taken: 46.42s,  
    Learning Rate: 0.00938619999999999 -> 0.  
    0093795999999999  
127 Fold 1/5, Epoch 95/300, Train Loss: 22.  
    78543811493728, Valid Loss: 3044.7036514282227,  
    Accuracy: 0.2847457627118644, Time Taken: 46.50s,  
    Learning Rate: 0.00937959999999999 -> 0.  
    0093729999999999  
128 Fold 1/5, Epoch 96/300, Train Loss: 29.  
    34768178363447, Valid Loss: 24466.936553955078,  
    Accuracy: 0.3576271186440678, Time Taken: 46.94s,  
    Learning Rate: 0.00937299999999999 -> 0.  
    00936639999999992  
129 Fold 1/5, Epoch 97/300, Train Loss: 21.  
    058684858260676, Valid Loss: 17153.905975341797,
```

```
129 Accuracy: 0.3576271186440678, Time Taken: 46.21s,
    Learning Rate: 0.009366399999999992 -> 0.
    009359799999999991
130 Fold 1/5, Epoch 98/300, Train Loss: 18.
    301990274747368, Valid Loss: 5113.728584289551,
    Accuracy: 0.3576271186440678, Time Taken: 46.98s,
    Learning Rate: 0.009359799999999991 -> 0.
    009353199999999992
131 Fold 1/5, Epoch 99/300, Train Loss: 22.
    69794401706895, Valid Loss: 8896.56623840332,
    Accuracy: 0.3576271186440678, Time Taken: 47.31s,
    Learning Rate: 0.009353199999999992 -> 0.
    009346599999999991
132 Fold 1/5, Epoch 100/300, Train Loss: 28.
    119461217545904, Valid Loss: 9115.26840209961,
    Accuracy: 0.3576271186440678, Time Taken: 46.11s,
    Learning Rate: 0.009346599999999991 -> 0.
    00933999999999999
133 Fold 1/5, Epoch 101/300, Train Loss: 24.
    00750877172686, Valid Loss: 10485.517761230469,
    Accuracy: 0.3576271186440678, Time Taken: 46.61s,
    Learning Rate: 0.00933999999999999 -> 0.
    009333399999999992
134 Fold 1/5, Epoch 102/300, Train Loss: 21.
    70082528427156, Valid Loss: 6691.359619140625,
    Accuracy: 0.3576271186440678, Time Taken: 46.26s,
    Learning Rate: 0.00933339999999992 -> 0.
    00932679999999993
135 Fold 1/5, Epoch 103/300, Train Loss: 18.
    962645145191345, Valid Loss: 14155.602737426758,
    Accuracy: 0.2847457627118644, Time Taken: 46.84s,
    Learning Rate: 0.00932679999999993 -> 0.
    00932019999999994
136 Fold 1/5, Epoch 104/300, Train Loss: 24.
    70188018947374, Valid Loss: 5129.77352142334,
    Accuracy: 0.3576271186440678, Time Taken: 46.89s,
    Learning Rate: 0.00932019999999994 -> 0.
    00931359999999993
137 Fold 1/5, Epoch 105/300, Train Loss: 19.
    546380470477743, Valid Loss: 4242.8610763549805,
    Accuracy: 0.3576271186440678, Time Taken: 46.94s,
```

```
137 Learning Rate: 0.009313599999999993 -> 0.  
009306999999999992  
138 Fold 1/5, Epoch 106/300, Train Loss: 21.  
002294702921063, Valid Loss: 9224.410217285156,  
Accuracy: 0.2847457627118644, Time Taken: 46.89s,  
Learning Rate: 0.00930699999999992 -> 0.  
009300399999999993  
139 Fold 1/5, Epoch 107/300, Train Loss: 19.  
557574682228733, Valid Loss: 4630.901794433594,  
Accuracy: 0.3593220338983051, Time Taken: 46.62s,  
Learning Rate: 0.00930039999999993 -> 0.  
009293799999999993  
140 Fold 1/5, Epoch 108/300, Train Loss: 17.  
220209752078517, Valid Loss: 6369.333297729492,  
Accuracy: 0.3576271186440678, Time Taken: 46.35s,  
Learning Rate: 0.00929379999999993 -> 0.  
009287199999999994  
141 Fold 1/5, Epoch 109/300, Train Loss: 24.  
324323162145447, Valid Loss: 18660.446350097656,  
Accuracy: 0.2847457627118644, Time Taken: 46.78s,  
Learning Rate: 0.00928719999999994 -> 0.  
009280599999999993  
142 Fold 1/5, Epoch 110/300, Train Loss: 15.  
633666789799463, Valid Loss: 6859.700500488281,  
Accuracy: 0.3576271186440678, Time Taken: 46.53s,  
Learning Rate: 0.00928059999999993 -> 0.  
00927399999999992  
143 Fold 1/5, Epoch 111/300, Train Loss: 15.  
21150166731968, Valid Loss: 8320.356079101562,  
Accuracy: 0.3576271186440678, Time Taken: 46.18s,  
Learning Rate: 0.00927399999999992 -> 0.  
00926739999999992  
144 Fold 1/5, Epoch 112/300, Train Loss: 17.  
449996368784923, Valid Loss: 51123.50207519531,  
Accuracy: 0.3576271186440678, Time Taken: 46.90s,  
Learning Rate: 0.00926739999999992 -> 0.  
00926079999999991  
145 Fold 1/5, Epoch 113/300, Train Loss: 22.  
488386323297163, Valid Loss: 4289.49577331543,  
Accuracy: 0.3576271186440678, Time Taken: 46.71s,  
Learning Rate: 0.00926079999999991 -> 0.
```

```
145 00925419999999999  
146 Fold 1/5, Epoch 114/300, Train Loss: 15.  
626431627868442, Valid Loss: 3204.684860229492,  
Accuracy: 0.2847457627118644, Time Taken: 45.97s,  
Learning Rate: 0.00925419999999999 -> 0.  
0092475999999999991  
147 Fold 1/5, Epoch 115/300, Train Loss: 17.  
265000209357822, Valid Loss: 1617.616662979126,  
Accuracy: 0.2830508474576271, Time Taken: 46.03s,  
Learning Rate: 0.009247599999999991 -> 0.  
0092409999999999992  
148 Fold 1/5, Epoch 116/300, Train Loss: 14.  
07555189354025, Valid Loss: 6197.315032958984,  
Accuracy: 0.3576271186440678, Time Taken: 46.83s,  
Learning Rate: 0.00924099999999992 -> 0.  
0092343999999999992  
149 Fold 1/5, Epoch 117/300, Train Loss: 27.  
61984835869589, Valid Loss: 16169.42839050293,  
Accuracy: 0.3576271186440678, Time Taken: 46.94s,  
Learning Rate: 0.00923439999999992 -> 0.  
00922779999999991  
150 Fold 1/5, Epoch 118/300, Train Loss: 19.  
529748873050266, Valid Loss: 14001.863037109375,  
Accuracy: 0.2847457627118644, Time Taken: 46.29s,  
Learning Rate: 0.00922779999999991 -> 0.  
00922119999999992  
151 Fold 1/5, Epoch 119/300, Train Loss: 25.  
455300460234866, Valid Loss: 3800.852424621582,  
Accuracy: 0.3576271186440678, Time Taken: 46.39s,  
Learning Rate: 0.00922119999999992 -> 0.  
00921459999999991  
152 Fold 1/5, Epoch 120/300, Train Loss: 19.  
95610021025641, Valid Loss: 9410.073608398438,  
Accuracy: 0.2847457627118644, Time Taken: 46.92s,  
Learning Rate: 0.00921459999999991 -> 0.  
0092079999999999  
153 Fold 1/5, Epoch 121/300, Train Loss: 21.  
100322677157237, Valid Loss: 9433.204513549805,  
Accuracy: 0.3576271186440678, Time Taken: 46.31s,  
Learning Rate: 0.0092079999999999 -> 0.  
0092013999999999
```

```
154 Fold 1/5, Epoch 122/300, Train Loss: 17.  
199788136509596, Valid Loss: 9046.399230957031,  
Accuracy: 0.2847457627118644, Time Taken: 46.01s,  
Learning Rate: 0.009201399999999999 -> 0.  
009194799999999989  
155 Fold 1/5, Epoch 123/300, Train Loss: 15.  
898443886631867, Valid Loss: 1179.6385688781738,  
Accuracy: 0.3576271186440678, Time Taken: 46.24s,  
Learning Rate: 0.009194799999999989 -> 0.  
009188199999999988  
156 Fold 1/5, Epoch 124/300, Train Loss: 15.  
130711935911677, Valid Loss: 680.4594326019287,  
Accuracy: 0.3576271186440678, Time Taken: 46.84s,  
Learning Rate: 0.009188199999999988 -> 0.  
009181599999999999  
157 Fold 1/5, Epoch 125/300, Train Loss: 17.  
045959140683408, Valid Loss: 3416.9371948242188,  
Accuracy: 0.3576271186440678, Time Taken: 46.33s,  
Learning Rate: 0.009181599999999999 -> 0.  
009174999999999989  
158 Fold 1/5, Epoch 126/300, Train Loss: 15.  
29720366433321, Valid Loss: 10958.457962036133,  
Accuracy: 0.3576271186440678, Time Taken: 47.59s,  
Learning Rate: 0.009174999999999989 -> 0.  
009168399999999988  
159 Fold 1/5, Epoch 127/300, Train Loss: 20.  
170623955593328, Valid Loss: 34557.249084472656,  
Accuracy: 0.3576271186440678, Time Taken: 46.79s,  
Learning Rate: 0.009168399999999988 -> 0.  
009161799999999987  
160 Fold 1/5, Epoch 128/300, Train Loss: 23.  
93351877581881, Valid Loss: 5075.008239746094,  
Accuracy: 0.3576271186440678, Time Taken: 47.38s,  
Learning Rate: 0.009161799999999987 -> 0.  
009155199999999988  
161 Fold 1/5, Epoch 129/300, Train Loss: 14.  
911777504283236, Valid Loss: 6261.276916503906,  
Accuracy: 0.3576271186440678, Time Taken: 47.76s,  
Learning Rate: 0.009155199999999988 -> 0.  
009148599999999988  
162 Fold 1/5, Epoch 130/300, Train Loss: 22.
```

```
162 296230956650106, Valid Loss: 5070.012359619141,  
Accuracy: 0.3576271186440678, Time Taken: 46.93s,  
Learning Rate: 0.009148599999999988 -> 0.  
009141999999999987  
163 Fold 1/5, Epoch 131/300, Train Loss: 21.  
256137728356407, Valid Loss: 11965.128173828125,  
Accuracy: 0.3576271186440678, Time Taken: 46.60s,  
Learning Rate: 0.009141999999999987 -> 0.  
009135399999999986  
164 Fold 1/5, Epoch 132/300, Train Loss: 25.  
477806381270057, Valid Loss: 36342.19006347656,  
Accuracy: 0.2847457627118644, Time Taken: 46.62s,  
Learning Rate: 0.009135399999999986 -> 0.  
009128799999999987  
165 Fold 1/5, Epoch 133/300, Train Loss: 15.  
399744328329689, Valid Loss: 4647.695579528809,  
Accuracy: 0.3576271186440678, Time Taken: 47.02s,  
Learning Rate: 0.009128799999999987 -> 0.  
009122199999999987  
166 Fold 1/5, Epoch 134/300, Train Loss: 12.  
96543840697268, Valid Loss: 14439.927703857422,  
Accuracy: 0.2847457627118644, Time Taken: 47.15s,  
Learning Rate: 0.009122199999999987 -> 0.  
009115599999999988  
167 Fold 1/5, Epoch 135/300, Train Loss: 16.  
968752096407115, Valid Loss: 11282.944625854492,  
Accuracy: 0.3576271186440678, Time Taken: 46.98s,  
Learning Rate: 0.009115599999999988 -> 0.  
009108999999999989  
168 Fold 1/5, Epoch 136/300, Train Loss: 20.  
934098448153236, Valid Loss: 9869.056182861328,  
Accuracy: 0.3576271186440678, Time Taken: 46.21s,  
Learning Rate: 0.009108999999999989 -> 0.  
009102399999999999  
169 Fold 1/5, Epoch 137/300, Train Loss: 20.  
593020120919846, Valid Loss: 29528.115478515625,  
Accuracy: 0.3576271186440678, Time Taken: 47.09s,  
Learning Rate: 0.009102399999999999 -> 0.  
009095799999999989  
170 Fold 1/5, Epoch 138/300, Train Loss: 32.  
84227865951743, Valid Loss: 27381.00828552246,
```

```
170 Accuracy: 0.3576271186440678, Time Taken: 46.49s,
    Learning Rate: 0.009095799999999989 -> 0.
    009089199999999988
171 Fold 1/5, Epoch 139/300, Train Loss: 23.
    749403082515528, Valid Loss: 3628.0964279174805,
    Accuracy: 0.3576271186440678, Time Taken: 47.13s,
    Learning Rate: 0.009089199999999988 -> 0.
    009082599999999988
172 Fold 1/5, Epoch 140/300, Train Loss: 21.
    96484159278043, Valid Loss: 6892.490921020508,
    Accuracy: 0.2847457627118644, Time Taken: 46.67s,
    Learning Rate: 0.009082599999999988 -> 0.
    009075999999999987
173 Fold 1/5, Epoch 141/300, Train Loss: 15.
    910574041929067, Valid Loss: 10787.863662719727,
    Accuracy: 0.3576271186440678, Time Taken: 47.31s,
    Learning Rate: 0.009075999999999987 -> 0.
    009069399999999988
174 Fold 1/5, Epoch 142/300, Train Loss: 13.
    423186718644502, Valid Loss: 23441.938690185547,
    Accuracy: 0.2847457627118644, Time Taken: 46.76s,
    Learning Rate: 0.009069399999999988 -> 0.
    009062799999999987
175 Fold 1/5, Epoch 143/300, Train Loss: 15.
    035920346272178, Valid Loss: 29041.77569580078,
    Accuracy: 0.2847457627118644, Time Taken: 46.14s,
    Learning Rate: 0.009062799999999987 -> 0.
    009056199999999986
176 Fold 1/5, Epoch 144/300, Train Loss: 19.
    937696625660465, Valid Loss: 5315.11678314209,
    Accuracy: 0.3576271186440678, Time Taken: 46.90s,
    Learning Rate: 0.009056199999999986 -> 0.
    009049599999999988
177 Fold 1/5, Epoch 145/300, Train Loss: 13.
    417329030846304, Valid Loss: 20241.31134033203,
    Accuracy: 0.2847457627118644, Time Taken: 46.98s,
    Learning Rate: 0.009049599999999988 -> 0.
    009042999999999989
178 Fold 1/5, Epoch 146/300, Train Loss: 18.
    16935849492438, Valid Loss: 18176.842254638672,
    Accuracy: 0.3576271186440678, Time Taken: 47.01s,
```

```
178 Learning Rate: 0.009042999999999989 -> 0.  
00903639999999999  
179 Fold 1/5, Epoch 147/300, Train Loss: 14.  
572733391309157, Valid Loss: 32624.145568847656,  
Accuracy: 0.3576271186440678, Time Taken: 47.37s,  
Learning Rate: 0.00903639999999999 -> 0.  
009029799999999989  
180 Fold 1/5, Epoch 148/300, Train Loss: 9.  
313533816777635, Valid Loss: 6802.05387878418,  
Accuracy: 0.3576271186440678, Time Taken: 47.43s,  
Learning Rate: 0.009029799999999989 -> 0.  
009023199999999988  
181 Fold 1/5, Epoch 149/300, Train Loss: 12.  
417125389930106, Valid Loss: 20908.76577758789,  
Accuracy: 0.3576271186440678, Time Taken: 47.11s,  
Learning Rate: 0.009023199999999988 -> 0.  
009016599999999987  
182 Fold 1/5, Epoch 150/300, Train Loss: 18.  
827442575187888, Valid Loss: 9185.07421875, Accuracy  
: 0.3576271186440678, Time Taken: 46.46s, Learning  
Rate: 0.009016599999999987 -> 0.009009999999999989  
183 Fold 1/5, Epoch 151/300, Train Loss: 13.  
79607830491068, Valid Loss: 10190.082458496094,  
Accuracy: 0.3576271186440678, Time Taken: 47.37s,  
Learning Rate: 0.009009999999999989 -> 0.  
00900339999999999  
184 Fold 1/5, Epoch 152/300, Train Loss: 20.  
69231680604571, Valid Loss: 19625.278381347656,  
Accuracy: 0.3576271186440678, Time Taken: 47.78s,  
Learning Rate: 0.00900339999999999 -> 0.  
008996799999999989  
185 Fold 1/5, Epoch 153/300, Train Loss: 16.  
12454623701433, Valid Loss: 11435.157272338867,  
Accuracy: 0.3576271186440678, Time Taken: 49.78s,  
Learning Rate: 0.008996799999999989 -> 0.  
00899019999999999  
186 Fold 1/5, Epoch 154/300, Train Loss: 16.  
723504867053634, Valid Loss: 5362.791877746582,  
Accuracy: 0.3576271186440678, Time Taken: 47.45s,  
Learning Rate: 0.00899019999999999 -> 0.  
00898359999999999
```

187 Fold 1/5, Epoch 155/300, Train Loss: 9.
737645205470471, Valid Loss: 6247.719268798828,
Accuracy: 0.3576271186440678, Time Taken: 50.14s,
Learning Rate: 0.008983599999999999 -> 0.
008976999999999988

188 Fold 1/5, Epoch 156/300, Train Loss: 18.
547014196616146, Valid Loss: 18701.92544555664,
Accuracy: 0.3576271186440678, Time Taken: 50.92s,
Learning Rate: 0.008976999999999988 -> 0.
008970399999999988

189 Fold 1/5, Epoch 157/300, Train Loss: 18.
15451781133015, Valid Loss: 15019.663391113281,
Accuracy: 0.2847457627118644, Time Taken: 49.29s,
Learning Rate: 0.008970399999999988 -> 0.
008963799999999989

190 Fold 1/5, Epoch 158/300, Train Loss: 19.
04970448226959, Valid Loss: 9887.439437866211,
Accuracy: 0.2847457627118644, Time Taken: 48.97s,
Learning Rate: 0.008963799999999989 -> 0.
008957199999999988

191 Fold 1/5, Epoch 159/300, Train Loss: 18.
765444377186213, Valid Loss: 13243.008117675781,
Accuracy: 0.2847457627118644, Time Taken: 49.28s,
Learning Rate: 0.008957199999999988 -> 0.
008950599999999987

192 Fold 1/5, Epoch 160/300, Train Loss: 18.
663306947528326, Valid Loss: 4170.234161376953,
Accuracy: 0.3576271186440678, Time Taken: 49.26s,
Learning Rate: 0.008950599999999987 -> 0.
008943999999999987

193 Fold 1/5, Epoch 161/300, Train Loss: 15.
935117087645267, Valid Loss: 2653.5106773376465,
Accuracy: 0.3576271186440678, Time Taken: 49.47s,
Learning Rate: 0.008943999999999987 -> 0.
008937399999999988

194 Fold 1/5, Epoch 162/300, Train Loss: 16.
0267815864936, Valid Loss: 11883.420135498047,
Accuracy: 0.2847457627118644, Time Taken: 49.20s,
Learning Rate: 0.008937399999999988 -> 0.
008930799999999987

195 Fold 1/5, Epoch 163/300, Train Loss: 19.

```
195 63037654915024, Valid Loss: 722.7912044525146,  
Accuracy: 0.3576271186440678, Time Taken: 49.25s,  
Learning Rate: 0.008930799999999987 -> 0.  
008924199999999988  
196 Fold 1/5, Epoch 164/300, Train Loss: 18.  
910273329695883, Valid Loss: 50128.433532714844,  
Accuracy: 0.3576271186440678, Time Taken: 48.98s,  
Learning Rate: 0.008924199999999988 -> 0.  
008917599999999989  
197 Fold 1/5, Epoch 165/300, Train Loss: 18.  
83418244139466, Valid Loss: 238.83623504638672,  
Accuracy: 0.3644067796610169, Time Taken: 48.73s,  
Learning Rate: 0.008917599999999989 -> 0.  
008910999999999988  
198 Fold 1/5, Epoch 166/300, Train Loss: 26.  
51643550294102, Valid Loss: 14665.254135131836,  
Accuracy: 0.3576271186440678, Time Taken: 48.96s,  
Learning Rate: 0.008910999999999988 -> 0.  
008904399999999988  
199 Fold 1/5, Epoch 167/300, Train Loss: 23.  
093310586626103, Valid Loss: 22751.002380371094,  
Accuracy: 0.3576271186440678, Time Taken: 48.91s,  
Learning Rate: 0.008904399999999988 -> 0.  
008897799999999987  
200 Fold 1/5, Epoch 168/300, Train Loss: 13.  
204051127252043, Valid Loss: 15777.580627441406,  
Accuracy: 0.3576271186440678, Time Taken: 49.11s,  
Learning Rate: 0.008897799999999987 -> 0.  
008891199999999986  
201 Fold 1/5, Epoch 169/300, Train Loss: 13.  
40298479579269, Valid Loss: 34383.661560058594,  
Accuracy: 0.3576271186440678, Time Taken: 49.76s,  
Learning Rate: 0.008891199999999986 -> 0.  
008884599999999986  
202 Fold 1/5, Epoch 170/300, Train Loss: 16.  
370009994277552, Valid Loss: 11757.815315246582,  
Accuracy: 0.3576271186440678, Time Taken: 50.01s,  
Learning Rate: 0.008884599999999986 -> 0.  
008877999999999985  
203 Fold 1/5, Epoch 171/300, Train Loss: 18.  
398116036190913, Valid Loss: 3388.9554710388184,
```

```
203 Accuracy: 0.3101694915254237, Time Taken: 50.01s,  
Learning Rate: 0.00887799999999985 -> 0.  
008871399999999984  
204 Fold 1/5, Epoch 172/300, Train Loss: 12.  
244391719895248, Valid Loss: 33665.298278808594,  
Accuracy: 0.2847457627118644, Time Taken: 48.36s,  
Learning Rate: 0.00887139999999984 -> 0.  
008864799999999985  
205 Fold 1/5, Epoch 173/300, Train Loss: 9.  
402388896971388, Valid Loss: 25311.856658935547,  
Accuracy: 0.2847457627118644, Time Taken: 49.56s,  
Learning Rate: 0.00886479999999985 -> 0.  
008858199999999984  
206 Fold 1/5, Epoch 174/300, Train Loss: 14.  
752264162510983, Valid Loss: 2040.0960273742676,  
Accuracy: 0.39661016949152544, Time Taken: 48.72s,  
Learning Rate: 0.008858199999999984 -> 0.  
008851599999999986  
207 Fold 1/5, Epoch 175/300, Train Loss: 17.  
78552015094465, Valid Loss: 2732.4935302734375,  
Accuracy: 0.3576271186440678, Time Taken: 49.36s,  
Learning Rate: 0.008851599999999986 -> 0.  
008844999999999985  
208 Fold 1/5, Epoch 176/300, Train Loss: 19.  
376345700628008, Valid Loss: 9220.658950805664,  
Accuracy: 0.2847457627118644, Time Taken: 50.71s,  
Learning Rate: 0.008844999999999985 -> 0.  
008838399999999986  
209 Fold 1/5, Epoch 177/300, Train Loss: 19.  
066494505030278, Valid Loss: 11843.305618286133,  
Accuracy: 0.3576271186440678, Time Taken: 50.11s,  
Learning Rate: 0.008838399999999986 -> 0.  
008831799999999985  
210 Fold 1/5, Epoch 178/300, Train Loss: 12.  
69668903749698, Valid Loss: 2402.10982131958,  
Accuracy: 0.2847457627118644, Time Taken: 50.33s,  
Learning Rate: 0.008831799999999985 -> 0.  
008825199999999984  
211 Fold 1/5, Epoch 179/300, Train Loss: 15.  
813025423940417, Valid Loss: 7799.770690917969,  
Accuracy: 0.3576271186440678, Time Taken: 51.49s,
```

```
211 Learning Rate: 0.00882519999999984 -> 0.  
008818599999999985  
212 Fold 1/5, Epoch 180/300, Train Loss: 13.  
374693887014473, Valid Loss: 31460.02667236328,  
Accuracy: 0.3576271186440678, Time Taken: 49.47s,  
Learning Rate: 0.008818599999999985 -> 0.  
008811999999999987  
213 Fold 1/5, Epoch 181/300, Train Loss: 13.  
172921468189315, Valid Loss: 36964.58905029297,  
Accuracy: 0.3576271186440678, Time Taken: 49.68s,  
Learning Rate: 0.008811999999999987 -> 0.  
008805399999999986  
214 Fold 1/5, Epoch 182/300, Train Loss: 23.  
715065670248805, Valid Loss: 741.8473644256592,  
Accuracy: 0.4033898305084746, Time Taken: 48.61s,  
Learning Rate: 0.008805399999999986 -> 0.  
008798799999999985  
215 Fold 1/5, Epoch 183/300, Train Loss: 16.  
178467021278266, Valid Loss: 3695.4116859436035,  
Accuracy: 0.3576271186440678, Time Taken: 49.98s,  
Learning Rate: 0.008798799999999985 -> 0.  
008792199999999984  
216 Fold 1/5, Epoch 184/300, Train Loss: 11.  
443521865046932, Valid Loss: 40931.197265625,  
Accuracy: 0.3576271186440678, Time Taken: 49.88s,  
Learning Rate: 0.008792199999999984 -> 0.  
008785599999999985  
217 Fold 1/5, Epoch 185/300, Train Loss: 12.  
106778576259785, Valid Loss: 5338.801322937012,  
Accuracy: 0.3576271186440678, Time Taken: 50.18s,  
Learning Rate: 0.008785599999999985 -> 0.  
008778999999999985  
218 Fold 1/5, Epoch 186/300, Train Loss: 20.  
935617165746237, Valid Loss: 8483.901252746582,  
Accuracy: 0.3576271186440678, Time Taken: 49.17s,  
Learning Rate: 0.008778999999999985 -> 0.  
008772399999999984  
219 Fold 1/5, Epoch 187/300, Train Loss: 14.  
52985906933145, Valid Loss: 5150.212066650391,  
Accuracy: 0.3576271186440678, Time Taken: 50.39s,  
Learning Rate: 0.008772399999999984 -> 0.
```

```
219 008765799999999983
220 Fold 1/5, Epoch 188/300, Train Loss: 17.
    847560589753925, Valid Loss: 8617.09407043457,
    Accuracy: 0.2847457627118644, Time Taken: 49.88s,
    Learning Rate: 0.008765799999999983 -> 0.
    008759199999999984
221 Fold 1/5, Epoch 189/300, Train Loss: 15.
    14708981271383, Valid Loss: 109809.92517089844,
    Accuracy: 0.3576271186440678, Time Taken: 50.67s,
    Learning Rate: 0.008759199999999984 -> 0.
    008752599999999984
222 Fold 1/5, Epoch 190/300, Train Loss: 14.
    689046029356106, Valid Loss: 15857.500579833984,
    Accuracy: 0.2847457627118644, Time Taken: 50.52s,
    Learning Rate: 0.008752599999999984 -> 0.
    008745999999999983
223 Fold 1/5, Epoch 191/300, Train Loss: 16.
    149861410804988, Valid Loss: 17373.294403076172,
    Accuracy: 0.3576271186440678, Time Taken: 51.64s,
    Learning Rate: 0.008745999999999983 -> 0.
    008739399999999984
224 Fold 1/5, Epoch 192/300, Train Loss: 20.
    204321393688986, Valid Loss: 3311.1336822509766,
    Accuracy: 0.2847457627118644, Time Taken: 52.11s,
    Learning Rate: 0.008739399999999984 -> 0.
    008732799999999985
225 Fold 1/5, Epoch 193/300, Train Loss: 17.
    981307787132096, Valid Loss: 27324.872009277344,
    Accuracy: 0.3576271186440678, Time Taken: 51.39s,
    Learning Rate: 0.008732799999999985 -> 0.
    008726199999999984
226 Fold 1/5, Epoch 194/300, Train Loss: 21.
    039902344582515, Valid Loss: 9017.244567871094,
    Accuracy: 0.3576271186440678, Time Taken: 50.50s,
    Learning Rate: 0.008726199999999984 -> 0.
    008719599999999984
227 Fold 1/5, Epoch 195/300, Train Loss: 15.
    62233291919074, Valid Loss: 17129.620727539062,
    Accuracy: 0.3576271186440678, Time Taken: 50.80s,
    Learning Rate: 0.008719599999999984 -> 0.
    008712999999999985
```

```
228 Fold 1/5, Epoch 196/300, Train Loss: 10.  
909264586038262, Valid Loss: 8222.860916137695,  
Accuracy: 0.3576271186440678, Time Taken: 50.04s,  
Learning Rate: 0.008712999999999985 -> 0.  
008706399999999984  
229 Fold 1/5, Epoch 197/300, Train Loss: 8.  
891006384706088, Valid Loss: 1521.4065074920654,  
Accuracy: 0.2847457627118644, Time Taken: 48.67s,  
Learning Rate: 0.008706399999999984 -> 0.  
008699799999999983  
230 Fold 1/5, Epoch 198/300, Train Loss: 13.  
100435225678666, Valid Loss: 8138.491806030273,  
Accuracy: 0.3576271186440678, Time Taken: 50.41s,  
Learning Rate: 0.008699799999999983 -> 0.  
008693199999999983  
231 Fold 1/5, Epoch 199/300, Train Loss: 10.  
579490636062928, Valid Loss: 5576.076713562012,  
Accuracy: 0.3576271186440678, Time Taken: 49.29s,  
Learning Rate: 0.008693199999999983 -> 0.  
008686599999999982  
232 Fold 1/5, Epoch 200/300, Train Loss: 17.  
748036199403714, Valid Loss: 3447.804874420166,  
Accuracy: 0.3576271186440678, Time Taken: 49.24s,  
Learning Rate: 0.008686599999999982 -> 0.  
008679999999999981  
233 Fold 1/5, Epoch 201/300, Train Loss: 18.  
666278706883077, Valid Loss: 2901.1034812927246,  
Accuracy: 0.423728813559322, Time Taken: 48.55s,  
Learning Rate: 0.008679999999999981 -> 0.  
00867339999999998  
234 Fold 1/5, Epoch 202/300, Train Loss: 16.  
62109027669203, Valid Loss: 835.231595993042,  
Accuracy: 0.3576271186440678, Time Taken: 49.17s,  
Learning Rate: 0.00867339999999998 -> 0.  
00866679999999998  
235 Fold 1/5, Epoch 203/300, Train Loss: 21.  
719679533413284, Valid Loss: 21623.067016601562,  
Accuracy: 0.3576271186440678, Time Taken: 48.85s,  
Learning Rate: 0.00866679999999998 -> 0.  
008660199999999979  
236 Fold 1/5, Epoch 204/300, Train Loss: 12.
```

```
236 878587851927023, Valid Loss: 4428.617607116699,  
Accuracy: 0.3576271186440678, Time Taken: 49.40s,  
Learning Rate: 0.008660199999999979 -> 0.  
00865359999999998  
237 Fold 1/5, Epoch 205/300, Train Loss: 11.  
758294658775412, Valid Loss: 917.6679973602295,  
Accuracy: 0.6050847457627119, Time Taken: 48.93s,  
Learning Rate: 0.00865359999999998 -> 0.  
00864699999999998  
238 Fold 1/5, Epoch 206/300, Train Loss: 11.  
09053735844632, Valid Loss: 1540.4220390319824,  
Accuracy: 0.3576271186440678, Time Taken: 49.09s,  
Learning Rate: 0.00864699999999998 -> 0.  
00864039999999998  
239 Fold 1/5, Epoch 207/300, Train Loss: 17.  
001817926567583, Valid Loss: 9531.290420532227,  
Accuracy: 0.3576271186440678, Time Taken: 47.00s,  
Learning Rate: 0.00864039999999998 -> 0.  
008633799999999981  
240 Fold 1/5, Epoch 208/300, Train Loss: 18.  
98118425598841, Valid Loss: 768.6929035186768,  
Accuracy: 0.3593220338983051, Time Taken: 46.45s,  
Learning Rate: 0.008633799999999981 -> 0.  
008627199999999982  
241 Fold 1/5, Epoch 209/300, Train Loss: 11.  
408730307082351, Valid Loss: 5157.185729980469,  
Accuracy: 0.2847457627118644, Time Taken: 47.52s,  
Learning Rate: 0.008627199999999982 -> 0.  
008620599999999982  
242 Fold 1/5, Epoch 210/300, Train Loss: 11.  
809317291883417, Valid Loss: 15896.849822998047,  
Accuracy: 0.3576271186440678, Time Taken: 46.67s,  
Learning Rate: 0.008620599999999982 -> 0.  
008613999999999981  
243 Fold 1/5, Epoch 211/300, Train Loss: 9.  
88410319649995, Valid Loss: 19823.2470703125,  
Accuracy: 0.3576271186440678, Time Taken: 48.34s,  
Learning Rate: 0.008613999999999981 -> 0.  
00860739999999998  
244 Fold 1/5, Epoch 212/300, Train Loss: 12.  
085172913100905, Valid Loss: 21927.96826171875,
```

```
244 Accuracy: 0.2847457627118644, Time Taken: 47.60s,
    Learning Rate: 0.00860739999999998 -> 0.
    00860079999999998
245 Fold 1/5, Epoch 213/300, Train Loss: 26.
    19371228145542, Valid Loss: 8134.483947753906,
    Accuracy: 0.2847457627118644, Time Taken: 47.11s,
    Learning Rate: 0.00860079999999998 -> 0.
    008594199999999979
246 Fold 1/5, Epoch 214/300, Train Loss: 19.
    115848729702975, Valid Loss: 32245.917388916016,
    Accuracy: 0.3576271186440678, Time Taken: 46.94s,
    Learning Rate: 0.008594199999999979 -> 0.
    008587599999999978
247 Fold 1/5, Epoch 215/300, Train Loss: 15.
    193140508346147, Valid Loss: 29971.45294189453,
    Accuracy: 0.2847457627118644, Time Taken: 45.95s,
    Learning Rate: 0.008587599999999978 -> 0.
    00858099999999998
248 Fold 1/5, Epoch 216/300, Train Loss: 18.
    183244302499133, Valid Loss: 440.5661277770996,
    Accuracy: 0.3576271186440678, Time Taken: 46.96s,
    Learning Rate: 0.00858099999999998 -> 0.
    00857439999999998
249 Fold 1/5, Epoch 217/300, Train Loss: 13.
    940739387365625, Valid Loss: 31949.037841796875,
    Accuracy: 0.3576271186440678, Time Taken: 47.23s,
    Learning Rate: 0.00857439999999998 -> 0.
    00856779999999998
250 Fold 1/5, Epoch 218/300, Train Loss: 18.
    31311514665896, Valid Loss: 5297.131683349609,
    Accuracy: 0.3576271186440678, Time Taken: 47.84s,
    Learning Rate: 0.00856779999999998 -> 0.
    00856119999999998
251 Fold 1/5, Epoch 219/300, Train Loss: 9.
    54279628129666, Valid Loss: 6787.629348754883,
    Accuracy: 0.2847457627118644, Time Taken: 47.22s,
    Learning Rate: 0.00856119999999998 -> 0.
    00855459999999998
252 Fold 1/5, Epoch 220/300, Train Loss: 15.
    55816813442948, Valid Loss: 1115.2068500518799,
    Accuracy: 0.2847457627118644, Time Taken: 47.25s,
```

```
252 Learning Rate: 0.00855459999999998 -> 0.  
00854799999999998  
253 Fold 1/5, Epoch 221/300, Train Loss: 16.  
829128314524528, Valid Loss: 4656.647613525391,  
Accuracy: 0.3576271186440678, Time Taken: 47.11s,  
Learning Rate: 0.00854799999999998 -> 0.  
008541399999999979  
254 Fold 1/5, Epoch 222/300, Train Loss: 24.  
6035112684292, Valid Loss: 2469.4895782470703,  
Accuracy: 0.2847457627118644, Time Taken: 46.63s,  
Learning Rate: 0.008541399999999979 -> 0.  
008534799999999978  
255 Fold 1/5, Epoch 223/300, Train Loss: 21.  
572826340232368, Valid Loss: 40300.17224121094,  
Accuracy: 0.3576271186440678, Time Taken: 46.52s,  
Learning Rate: 0.008534799999999978 -> 0.  
008528199999999979  
256 Fold 1/5, Epoch 224/300, Train Loss: 18.  
757030813926576, Valid Loss: 17187.269439697266,  
Accuracy: 0.3576271186440678, Time Taken: 47.17s,  
Learning Rate: 0.008528199999999979 -> 0.  
008521599999999978  
257 Fold 1/5, Epoch 225/300, Train Loss: 15.  
799906481491576, Valid Loss: 16793.640350341797,  
Accuracy: 0.3576271186440678, Time Taken: 47.42s,  
Learning Rate: 0.008521599999999978 -> 0.  
008514999999999977  
258 Fold 1/5, Epoch 226/300, Train Loss: 12.  
299049775121603, Valid Loss: 15493.652862548828,  
Accuracy: 0.3576271186440678, Time Taken: 47.36s,  
Learning Rate: 0.008514999999999977 -> 0.  
008508399999999977  
259 Fold 1/5, Epoch 227/300, Train Loss: 16.  
094396317586273, Valid Loss: 1341.7855606079102,  
Accuracy: 0.3576271186440678, Time Taken: 47.52s,  
Learning Rate: 0.008508399999999977 -> 0.  
008501799999999976  
260 Fold 1/5, Epoch 228/300, Train Loss: 20.  
43193345767304, Valid Loss: 3584.5711822509766,  
Accuracy: 0.2847457627118644, Time Taken: 47.48s,  
Learning Rate: 0.008501799999999976 -> 0.
```

260 008495199999999975
261 Fold 1/5, Epoch 229/300, Train Loss: 11.
123548708423925, Valid Loss: 29274.14175415039,
Accuracy: 0.3576271186440678, Time Taken: 46.02s,
Learning Rate: 0.008495199999999975 -> 0.
008488599999999975
262 Fold 1/5, Epoch 230/300, Train Loss: 11.
95602009825717, Valid Loss: 12344.058959960938,
Accuracy: 0.3576271186440678, Time Taken: 46.59s,
Learning Rate: 0.008488599999999975 -> 0.
008481999999999976
263 Fold 1/5, Epoch 231/300, Train Loss: 14.
567048596281893, Valid Loss: 3937.645332336426,
Accuracy: 0.3576271186440678, Time Taken: 47.55s,
Learning Rate: 0.008481999999999976 -> 0.
008475399999999977
264 Fold 1/5, Epoch 232/300, Train Loss: 11.
346093702055441, Valid Loss: 22391.005798339844,
Accuracy: 0.2847457627118644, Time Taken: 47.65s,
Learning Rate: 0.008475399999999977 -> 0.
008468799999999976
265 Fold 1/5, Epoch 233/300, Train Loss: 13.
159905205685988, Valid Loss: 19955.49090576172,
Accuracy: 0.2847457627118644, Time Taken: 48.55s,
Learning Rate: 0.008468799999999976 -> 0.
008462199999999975
266 Fold 1/5, Epoch 234/300, Train Loss: 17.
807211867011944, Valid Loss: 85501.62780761719,
Accuracy: 0.3576271186440678, Time Taken: 47.35s,
Learning Rate: 0.008462199999999975 -> 0.
008455599999999975
267 Fold 1/5, Epoch 235/300, Train Loss: 12.
699511935607518, Valid Loss: 10865.629333496094,
Accuracy: 0.3576271186440678, Time Taken: 47.90s,
Learning Rate: 0.008455599999999975 -> 0.
008448999999999974
268 Fold 1/5, Epoch 236/300, Train Loss: 16.
616230834127236, Valid Loss: 11305.746871948242,
Accuracy: 0.3576271186440678, Time Taken: 46.74s,
Learning Rate: 0.008448999999999974 -> 0.
008442399999999975

269 Fold 1/5, Epoch 237/300, Train Loss: 20.
484926529944005, Valid Loss: 11644.465034484863,
Accuracy: 0.3576271186440678, Time Taken: 46.38s,
Learning Rate: 0.008442399999999975 -> 0.
008435799999999974

270 Fold 1/5, Epoch 238/300, Train Loss: 11.
656935608417086, Valid Loss: 58040.659423828125,
Accuracy: 0.3576271186440678, Time Taken: 46.23s,
Learning Rate: 0.008435799999999974 -> 0.
008429199999999975

271 Fold 1/5, Epoch 239/300, Train Loss: 9.
995351098189616, Valid Loss: 27879.946655273438,
Accuracy: 0.3576271186440678, Time Taken: 47.29s,
Learning Rate: 0.008429199999999975 -> 0.
008422599999999976

272 Fold 1/5, Epoch 240/300, Train Loss: 9.
784486778909983, Valid Loss: 503.50207710266113,
Accuracy: 0.2847457627118644, Time Taken: 47.06s,
Learning Rate: 0.008422599999999976 -> 0.
008415999999999976

273 Fold 1/5, Epoch 241/300, Train Loss: 13.
049244046134163, Valid Loss: 24993.38671875,
Accuracy: 0.2847457627118644, Time Taken: 47.28s,
Learning Rate: 0.008415999999999976 -> 0.
008409399999999975

274 Fold 1/5, Epoch 242/300, Train Loss: 16.
458456011740736, Valid Loss: 676.6995315551758,
Accuracy: 0.3576271186440678, Time Taken: 47.05s,
Learning Rate: 0.008409399999999975 -> 0.
008402799999999974

275 Fold 1/5, Epoch 243/300, Train Loss: 21.
371229666017825, Valid Loss: 19455.69058227539,
Accuracy: 0.3576271186440678, Time Taken: 46.18s,
Learning Rate: 0.008402799999999974 -> 0.
008396199999999973

276 Fold 1/5, Epoch 244/300, Train Loss: 17.
46519791795528, Valid Loss: 6994.857734680176,
Accuracy: 0.3576271186440678, Time Taken: 45.75s,
Learning Rate: 0.008396199999999973 -> 0.
008389599999999975

277 Fold 1/5, Epoch 245/300, Train Loss: 9.

277 746233773697412, Valid Loss: 35877.81787109375,
Accuracy: 0.3576271186440678, Time Taken: 47.12s,
Learning Rate: 0.008389599999999975 -> 0.
008382999999999976

278 Fold 1/5, Epoch 246/300, Train Loss: 14.
22921258050323, Valid Loss: 14790.669342041016,
Accuracy: 0.3593220338983051, Time Taken: 46.81s,
Learning Rate: 0.008382999999999976 -> 0.
008376399999999975

279 Fold 1/5, Epoch 247/300, Train Loss: 15.
057046934947152, Valid Loss: 14811.29866027832,
Accuracy: 0.3576271186440678, Time Taken: 46.78s,
Learning Rate: 0.008376399999999975 -> 0.
008369799999999974

280 Fold 1/5, Epoch 248/300, Train Loss: 14.
940566417422815, Valid Loss: 1803.9809036254883,
Accuracy: 0.2847457627118644, Time Taken: 47.95s,
Learning Rate: 0.008369799999999974 -> 0.
008363199999999973

281 Fold 1/5, Epoch 249/300, Train Loss: 15.
17491100193456, Valid Loss: 4170.041519165039,
Accuracy: 0.3576271186440678, Time Taken: 47.57s,
Learning Rate: 0.008363199999999973 -> 0.
008356599999999973

282 Fold 1/5, Epoch 250/300, Train Loss: 20.
21677809762616, Valid Loss: 12432.637992858887,
Accuracy: 0.3576271186440678, Time Taken: 47.18s,
Learning Rate: 0.008356599999999973 -> 0.
008349999999999972

283 Fold 1/5, Epoch 251/300, Train Loss: 21.
638093291019004, Valid Loss: 13321.484558105469,
Accuracy: 0.3576271186440678, Time Taken: 47.00s,
Learning Rate: 0.00834999999999972 -> 0.
008343399999999971

284 Fold 1/5, Epoch 252/300, Train Loss: 21.
662237816321976, Valid Loss: 526.3019075393677,
Accuracy: 0.3711864406779661, Time Taken: 47.56s,
Learning Rate: 0.008343399999999971 -> 0.
00833679999999997

285 Fold 1/5, Epoch 253/300, Train Loss: 10.
452238866756176, Valid Loss: 20535.977111816406,

```
285 Accuracy: 0.3576271186440678, Time Taken: 45.36s,  
Learning Rate: 0.00833679999999997 -> 0.  
008330199999999997  
286 Fold 1/5, Epoch 254/300, Train Loss: 14.  
8754314493083, Valid Loss: 8418.68392944336,  
Accuracy: 0.2847457627118644, Time Taken: 45.18s,  
Learning Rate: 0.00833019999999997 -> 0.  
008323599999999997  
287 Fold 1/5, Epoch 255/300, Train Loss: 10.  
090259794789404, Valid Loss: 14457.052276611328,  
Accuracy: 0.3576271186440678, Time Taken: 46.16s,  
Learning Rate: 0.00832359999999997 -> 0.  
008316999999999969  
288 Fold 1/5, Epoch 256/300, Train Loss: 17.  
8007886666717, Valid Loss: 30806.12713623047,  
Accuracy: 0.3576271186440678, Time Taken: 45.68s,  
Learning Rate: 0.008316999999999969 -> 0.  
008310399999999968  
289 Fold 1/5, Epoch 257/300, Train Loss: 20.  
101479237270397, Valid Loss: 16318.789001464844,  
Accuracy: 0.2847457627118644, Time Taken: 45.34s,  
Learning Rate: 0.008310399999999968 -> 0.  
008303799999999969  
290 Fold 1/5, Epoch 258/300, Train Loss: 15.  
989049173346757, Valid Loss: 26558.12664794922,  
Accuracy: 0.2847457627118644, Time Taken: 44.27s,  
Learning Rate: 0.008303799999999969 -> 0.  
0082971999999997  
291 Fold 1/5, Epoch 259/300, Train Loss: 12.  
785915108659616, Valid Loss: 13853.187438964844,  
Accuracy: 0.3576271186440678, Time Taken: 44.97s,  
Learning Rate: 0.00829719999999997 -> 0.  
00829059999999997  
292 Fold 1/5, Epoch 260/300, Train Loss: 14.  
94397928528906, Valid Loss: 39812.57745361328,  
Accuracy: 0.3576271186440678, Time Taken: 45.39s,  
Learning Rate: 0.00829059999999997 -> 0.  
00828399999999997  
293 Fold 1/5, Epoch 261/300, Train Loss: 14.  
463463472849256, Valid Loss: 7266.123336791992,  
Accuracy: 0.3576271186440678, Time Taken: 47.70s,
```

```
293 Learning Rate: 0.00828399999999997 -> 0.  
008277399999999971  
294 Fold 1/5, Epoch 262/300, Train Loss: 15.  
780775431143041, Valid Loss: 1589.6814098358154,  
Accuracy: 0.3271186440677966, Time Taken: 48.70s,  
Learning Rate: 0.008277399999999971 -> 0.  
00827079999999997  
295 Fold 1/5, Epoch 263/300, Train Loss: 16.  
653083740474926, Valid Loss: 29846.06069946289,  
Accuracy: 0.3576271186440678, Time Taken: 48.05s,  
Learning Rate: 0.00827079999999997 -> 0.  
008264199999999972  
296 Fold 1/5, Epoch 264/300, Train Loss: 19.  
471809954315642, Valid Loss: 3133.0512657165527,  
Accuracy: 0.3576271186440678, Time Taken: 48.23s,  
Learning Rate: 0.008264199999999972 -> 0.  
00825759999999997  
297 Fold 1/5, Epoch 265/300, Train Loss: 15.  
731651112065947, Valid Loss: 2834.491386413574,  
Accuracy: 0.2847457627118644, Time Taken: 45.95s,  
Learning Rate: 0.00825759999999997 -> 0.  
00825099999999997  
298 Fold 1/5, Epoch 266/300, Train Loss: 12.  
58152285363991, Valid Loss: 25471.218688964844,  
Accuracy: 0.3576271186440678, Time Taken: 44.92s,  
Learning Rate: 0.00825099999999997 -> 0.  
008244399999999971  
299 Fold 1/5, Epoch 267/300, Train Loss: 10.  
44285866228887, Valid Loss: 9745.001266479492,  
Accuracy: 0.36271186440677966, Time Taken: 46.91s,  
Learning Rate: 0.008244399999999971 -> 0.  
00823779999999997  
300 Fold 1/5, Epoch 268/300, Train Loss: 12.  
344813752748962, Valid Loss: 15781.401153564453,  
Accuracy: 0.3576271186440678, Time Taken: 47.11s,  
Learning Rate: 0.00823779999999997 -> 0.  
00823119999999997  
301 Fold 1/5, Epoch 269/300, Train Loss: 17.  
342205200257382, Valid Loss: 7782.35334777832,  
Accuracy: 0.3576271186440678, Time Taken: 46.60s,  
Learning Rate: 0.00823119999999997 -> 0.
```

301 008224599999999969
302 Fold 1/5, Epoch 270/300, Train Loss: 15.
375780000564589, Valid Loss: 19836.831634521484,
Accuracy: 0.3576271186440678, Time Taken: 45.44s,
Learning Rate: 0.008224599999999969 -> 0.
008217999999999968
303 Fold 1/5, Epoch 271/300, Train Loss: 12.
747732330162656, Valid Loss: 7529.006134033203,
Accuracy: 0.3576271186440678, Time Taken: 45.29s,
Learning Rate: 0.008217999999999968 -> 0.
008211399999999968
304 Fold 1/5, Epoch 272/300, Train Loss: 8.
923517037584276, Valid Loss: 43272.14892578125,
Accuracy: 0.3576271186440678, Time Taken: 44.98s,
Learning Rate: 0.008211399999999968 -> 0.
008204799999999967
305 Fold 1/5, Epoch 273/300, Train Loss: 14.
02044832275513, Valid Loss: 950.9039859771729,
Accuracy: 0.3677966101694915, Time Taken: 45.08s,
Learning Rate: 0.008204799999999967 -> 0.
008198199999999966
306 Fold 1/5, Epoch 274/300, Train Loss: 19.
737910395101736, Valid Loss: 12583.366943359375,
Accuracy: 0.3576271186440678, Time Taken: 47.77s,
Learning Rate: 0.008198199999999966 -> 0.
008191599999999966
307 Fold 1/5, Epoch 275/300, Train Loss: 10.
25748554633315, Valid Loss: 2695.473976135254,
Accuracy: 0.2847457627118644, Time Taken: 46.10s,
Learning Rate: 0.008191599999999966 -> 0.
008184999999999965
308 Fold 1/5, Epoch 276/300, Train Loss: 13.
525657780692185, Valid Loss: 764.3946437835693,
Accuracy: 0.3576271186440678, Time Taken: 45.69s,
Learning Rate: 0.008184999999999965 -> 0.
008178399999999966
309 Fold 1/5, Epoch 277/300, Train Loss: 15.
41667844950377, Valid Loss: 19679.999298095703,
Accuracy: 0.3576271186440678, Time Taken: 45.47s,
Learning Rate: 0.008178399999999966 -> 0.
008171799999999965

310 Fold 1/5, Epoch 278/300, Train Loss: 10.
707163968287462, Valid Loss: 2989.4762382507324,
Accuracy: 0.288135593220339, Time Taken: 46.20s,
Learning Rate: 0.008171799999999965 -> 0.
008165199999999965

311 Fold 1/5, Epoch 279/300, Train Loss: 15.
666661460903718, Valid Loss: 33289.59405517578,
Accuracy: 0.3576271186440678, Time Taken: 44.67s,
Learning Rate: 0.008165199999999965 -> 0.
008158599999999966

312 Fold 1/5, Epoch 280/300, Train Loss: 15.
266280759411165, Valid Loss: 9500.452255249023,
Accuracy: 0.3593220338983051, Time Taken: 44.62s,
Learning Rate: 0.008158599999999966 -> 0.
008151999999999965

313 Fold 1/5, Epoch 281/300, Train Loss: 20.
80223630580906, Valid Loss: 2844.968505859375,
Accuracy: 0.3576271186440678, Time Taken: 45.23s,
Learning Rate: 0.008151999999999965 -> 0.
008145399999999964

314 Fold 1/5, Epoch 282/300, Train Loss: 13.
571258358676808, Valid Loss: 51271.95458984375,
Accuracy: 0.3576271186440678, Time Taken: 45.79s,
Learning Rate: 0.008145399999999964 -> 0.
008138799999999963

315 Fold 1/5, Epoch 283/300, Train Loss: 23.
292973852776257, Valid Loss: 2997.6293182373047,
Accuracy: 0.2847457627118644, Time Taken: 45.54s,
Learning Rate: 0.008138799999999963 -> 0.
008132199999999964

316 Fold 1/5, Epoch 284/300, Train Loss: 28.
110677213607346, Valid Loss: 12299.666778564453,
Accuracy: 0.3576271186440678, Time Taken: 47.94s,
Learning Rate: 0.008132199999999964 -> 0.
008125599999999964

317 Fold 1/5, Epoch 285/300, Train Loss: 20.
75032919276839, Valid Loss: 9433.833984375, Accuracy
: 0.3576271186440678, Time Taken: 47.65s, Learning
Rate: 0.008125599999999964 -> 0.008118999999999965

318 Fold 1/5, Epoch 286/300, Train Loss: 12.
569608669203426, Valid Loss: 4706.062141418457,

```
318 Accuracy: 0.3576271186440678, Time Taken: 47.19s,
Learning Rate: 0.008118999999999965 -> 0.
008112399999999966
319 Fold 1/5, Epoch 287/300, Train Loss: 10.
346046423659864, Valid Loss: 3290.452217102051,
Accuracy: 0.3576271186440678, Time Taken: 46.86s,
Learning Rate: 0.008112399999999966 -> 0.
008105799999999967
320 Fold 1/5, Epoch 288/300, Train Loss: 11.
310353718604212, Valid Loss: 8793.125854492188,
Accuracy: 0.3576271186440678, Time Taken: 47.65s,
Learning Rate: 0.008105799999999967 -> 0.
008099199999999968
321 Fold 1/5, Epoch 289/300, Train Loss: 10.
535465340528049, Valid Loss: 7673.255172729492,
Accuracy: 0.3576271186440678, Time Taken: 47.46s,
Learning Rate: 0.008099199999999968 -> 0.
008092599999999969
322 Fold 1/5, Epoch 290/300, Train Loss: 15.
5564176190224, Valid Loss: 4378.785438537598,
Accuracy: 0.3677966101694915, Time Taken: 48.02s,
Learning Rate: 0.008092599999999969 -> 0.
00808599999999997
323 Fold 1/5, Epoch 291/300, Train Loss: 16.
6679517103628, Valid Loss: 32815.709228515625,
Accuracy: 0.3576271186440678, Time Taken: 47.74s,
Learning Rate: 0.00808599999999997 -> 0.
008079399999999971
324 Fold 1/5, Epoch 292/300, Train Loss: 16.
523032635111097, Valid Loss: 14133.505737304688,
Accuracy: 0.3576271186440678, Time Taken: 49.89s,
Learning Rate: 0.008079399999999971 -> 0.
008072799999999972
325 Fold 1/5, Epoch 293/300, Train Loss: 11.
107430806587992, Valid Loss: 11645.85888671875,
Accuracy: 0.3576271186440678, Time Taken: 47.14s,
Learning Rate: 0.008072799999999972 -> 0.
008066199999999971
326 Fold 1/5, Epoch 294/300, Train Loss: 10.
988999142417534, Valid Loss: 3186.5928382873535,
Accuracy: 0.3576271186440678, Time Taken: 45.39s,
```

```
326 Learning Rate: 0.008066199999999971 -> 0.  
00805959999999997  
327 Fold 1/5, Epoch 295/300, Train Loss: 15.  
80469157996498, Valid Loss: 15639.897735595703,  
Accuracy: 0.3576271186440678, Time Taken: 45.00s,  
Learning Rate: 0.00805959999999997 -> 0.  
00805299999999997  
328 Fold 1/5, Epoch 296/300, Train Loss: 14.  
849335263331056, Valid Loss: 24399.79608154297,  
Accuracy: 0.2847457627118644, Time Taken: 45.53s,  
Learning Rate: 0.00805299999999997 -> 0.  
00804639999999997  
329 Fold 1/5, Epoch 297/300, Train Loss: 12.  
194305779145122, Valid Loss: 17953.125457763672,  
Accuracy: 0.3576271186440678, Time Taken: 45.37s,  
Learning Rate: 0.00804639999999997 -> 0.  
008039799999999968  
330 Fold 1/5, Epoch 298/300, Train Loss: 16.  
25422522723222, Valid Loss: 17168.404205322266,  
Accuracy: 0.3576271186440678, Time Taken: 45.66s,  
Learning Rate: 0.008039799999999968 -> 0.  
008033199999999968  
331 Fold 1/5, Epoch 299/300, Train Loss: 18.  
248230289793042, Valid Loss: 3242.9588890075684,  
Accuracy: 0.3576271186440678, Time Taken: 45.72s,  
Learning Rate: 0.008033199999999968 -> 0.  
008026599999999969  
332 Fold 1/5, Epoch 300/300, Train Loss: 9.  
016122800917003, Valid Loss: 9772.443313598633,  
Accuracy: 0.3576271186440678, Time Taken: 45.08s,  
Learning Rate: 0.008026599999999969 -> 0.  
00801999999999997  
333  
334 Fold 2/5  
335 Train dataloader: 118 batches  
336 Valid dataloader: 30 batches  
337  
338 Fold 2/5, Epoch 1/300, Train Loss: 26.50548463802869  
, Valid Loss: 25369.046173095703, Accuracy: 0.  
2835314091680815, Time Taken: 44.17s, Learning Rate  
: 0.00801999999999997 -> 0.00801339999999997
```

```
339 Fold 2/5, Epoch 2/300, Train Loss: 13.79984322706565
    , Valid Loss: 2041.2709579467773, Accuracy: 0.
    2903225806451613, Time Taken: 44.76s, Learning Rate
    : 0.00801339999999997 -> 0.008006799999999968
340 Fold 2/5, Epoch 3/300, Train Loss: 23.
    964658242229916, Valid Loss: 942.9614009857178,
    Accuracy: 0.35823429541595925, Time Taken: 45.84s,
    Learning Rate: 0.008006799999999968 -> 0.
    008000199999999968
341 Fold 2/5, Epoch 4/300, Train Loss: 20.86747025237287
    , Valid Loss: 587.708475112915, Accuracy: 0.
    3157894736842105, Time Taken: 45.67s, Learning Rate
    : 0.008000199999999968 -> 0.007993599999999967
342 Fold 2/5, Epoch 5/300, Train Loss: 12.
    508633326129257, Valid Loss: 36185.51428222656,
    Accuracy: 0.2835314091680815, Time Taken: 45.75s,
    Learning Rate: 0.007993599999999967 -> 0.
    007986999999999968
343 Fold 2/5, Epoch 6/300, Train Loss: 16.
    415953387642958, Valid Loss: 6257.687438964844,
    Accuracy: 0.35823429541595925, Time Taken: 46.53s,
    Learning Rate: 0.007986999999999968 -> 0.
    007980399999999967
344 Fold 2/5, Epoch 7/300, Train Loss: 18.
    909185376006462, Valid Loss: 320.97242164611816,
    Accuracy: 0.38879456706281834, Time Taken: 45.84s,
    Learning Rate: 0.007980399999999967 -> 0.
    007973799999999968
345 Fold 2/5, Epoch 8/300, Train Loss: 12.30257959163157
    , Valid Loss: 1574.1669540405273, Accuracy: 0.
    35823429541595925, Time Taken: 44.45s, Learning Rate
    : 0.007973799999999968 -> 0.007967199999999968
346 Fold 2/5, Epoch 9/300, Train Loss: 9.39821767999996
    , Valid Loss: 498.8559150695801, Accuracy: 0.
    3242784380305603, Time Taken: 47.80s, Learning Rate
    : 0.007967199999999968 -> 0.007960599999999967
347 Fold 2/5, Epoch 10/300, Train Loss: 12.
    481560713664294, Valid Loss: 10385.917831420898,
    Accuracy: 0.35823429541595925, Time Taken: 45.68s,
    Learning Rate: 0.007960599999999967 -> 0.
    007953999999999966
```

348 Fold 2/5, Epoch 11/300, Train Loss: 15.
45276218585309, Valid Loss: 37231.41027832031,
Accuracy: 0.35823429541595925, Time Taken: 45.87s,
Learning Rate: 0.007953999999999966 -> 0.
007947399999999966

349 Fold 2/5, Epoch 12/300, Train Loss: 13.
521841946713721, Valid Loss: 9349.161361694336,
Accuracy: 0.35823429541595925, Time Taken: 46.01s,
Learning Rate: 0.007947399999999966 -> 0.
007940799999999965

350 Fold 2/5, Epoch 13/300, Train Loss: 9.75283091476247
, Valid Loss: 1916.2158432006836, Accuracy: 0.
35823429541595925, Time Taken: 45.96s, Learning Rate
: 0.007940799999999965 -> 0.007934199999999966

351 Fold 2/5, Epoch 14/300, Train Loss: 13.
692980992374316, Valid Loss: 818.6774215698242,
Accuracy: 0.36502546689303905, Time Taken: 47.71s,
Learning Rate: 0.007934199999999966 -> 0.
007927599999999967

352 Fold 2/5, Epoch 15/300, Train Loss: 24.
35840710724824, Valid Loss: 7839.125762939453,
Accuracy: 0.35823429541595925, Time Taken: 46.13s,
Learning Rate: 0.007927599999999967 -> 0.
007920999999999968

353 Fold 2/5, Epoch 16/300, Train Loss: 19.
105520065452538, Valid Loss: 29566.98504638672,
Accuracy: 0.2835314091680815, Time Taken: 46.69s,
Learning Rate: 0.007920999999999968 -> 0.
007914399999999967

354 Fold 2/5, Epoch 17/300, Train Loss: 16.
234544508363342, Valid Loss: 2085.080539703369,
Accuracy: 0.3599320882852292, Time Taken: 46.68s,
Learning Rate: 0.007914399999999967 -> 0.
007907799999999967

355 Fold 2/5, Epoch 18/300, Train Loss: 9.
104000836439809, Valid Loss: 1697.5842781066895,
Accuracy: 0.3599320882852292, Time Taken: 47.47s,
Learning Rate: 0.007907799999999967 -> 0.
007901199999999968

356 Fold 2/5, Epoch 19/300, Train Loss: 10.
460675231723144, Valid Loss: 42337.295959472656,

```
356 Accuracy: 0.35823429541595925, Time Taken: 47.32s,  
Learning Rate: 0.007901199999999968 -> 0.  
007894599999999967  
357 Fold 2/5, Epoch 20/300, Train Loss: 17.  
448219112355588, Valid Loss: 8812.055099487305,  
Accuracy: 0.2835314091680815, Time Taken: 47.36s,  
Learning Rate: 0.007894599999999967 -> 0.  
007887999999999966  
358 Fold 2/5, Epoch 21/300, Train Loss: 17.  
921773441870755, Valid Loss: 4328.757392883301,  
Accuracy: 0.2835314091680815, Time Taken: 47.91s,  
Learning Rate: 0.007887999999999966 -> 0.  
007881399999999966  
359 Fold 2/5, Epoch 22/300, Train Loss: 10.  
621776105623894, Valid Loss: 2352.635601043701,  
Accuracy: 0.35823429541595925, Time Taken: 46.31s,  
Learning Rate: 0.007881399999999966 -> 0.  
007874799999999967  
360 Fold 2/5, Epoch 23/300, Train Loss: 16.  
80032781440309, Valid Loss: 22000.29360961914,  
Accuracy: 0.35823429541595925, Time Taken: 46.19s,  
Learning Rate: 0.007874799999999967 -> 0.  
007868199999999968  
361 Fold 2/5, Epoch 24/300, Train Loss: 14.  
112737603429537, Valid Loss: 9422.068420410156,  
Accuracy: 0.35823429541595925, Time Taken: 46.45s,  
Learning Rate: 0.007868199999999968 -> 0.  
007861599999999969  
362 Fold 2/5, Epoch 25/300, Train Loss: 10.  
451813513309844, Valid Loss: 19704.391693115234,  
Accuracy: 0.35823429541595925, Time Taken: 46.81s,  
Learning Rate: 0.007861599999999969 -> 0.  
007854999999999968  
363 Fold 2/5, Epoch 26/300, Train Loss: 17.  
80165645607849, Valid Loss: 2741.922824859619,  
Accuracy: 0.35823429541595925, Time Taken: 47.34s,  
Learning Rate: 0.007854999999999968 -> 0.  
007848399999999969  
364 Fold 2/5, Epoch 27/300, Train Loss: 15.  
114345229001223, Valid Loss: 3857.0049057006836,  
Accuracy: 0.35823429541595925, Time Taken: 47.13s,
```

```
364 Learning Rate: 0.007848399999999969 -> 0.  
007841799999999968  
365 Fold 2/5, Epoch 28/300, Train Loss: 25.  
132155401220757, Valid Loss: 16130.470825195312,  
Accuracy: 0.35823429541595925, Time Taken: 46.92s,  
Learning Rate: 0.007841799999999968 -> 0.  
00783519999999997  
366 Fold 2/5, Epoch 29/300, Train Loss: 14.  
51831567529166, Valid Loss: 18986.261779785156,  
Accuracy: 0.35823429541595925, Time Taken: 46.54s,  
Learning Rate: 0.00783519999999997 -> 0.  
00782859999999997  
367 Fold 2/5, Epoch 30/300, Train Loss: 10.  
553347614640586, Valid Loss: 3184.2751235961914,  
Accuracy: 0.35823429541595925, Time Taken: 46.02s,  
Learning Rate: 0.00782859999999997 -> 0.  
007821999999999971  
368 Fold 2/5, Epoch 31/300, Train Loss: 20.  
977633771527167, Valid Loss: 510.45800161361694,  
Accuracy: 0.41256366723259763, Time Taken: 46.99s,  
Learning Rate: 0.007821999999999971 -> 0.  
00781539999999997  
369 Fold 2/5, Epoch 32/300, Train Loss: 14.  
931736931545448, Valid Loss: 8540.905296325684,  
Accuracy: 0.35823429541595925, Time Taken: 47.70s,  
Learning Rate: 0.00781539999999997 -> 0.  
007808799999999971  
370 Fold 2/5, Epoch 33/300, Train Loss: 19.  
447041914398298, Valid Loss: 40408.556396484375,  
Accuracy: 0.35823429541595925, Time Taken: 46.88s,  
Learning Rate: 0.007808799999999971 -> 0.  
007802199999999971  
371 Fold 2/5, Epoch 34/300, Train Loss: 18.  
293430162563865, Valid Loss: 20741.760040283203,  
Accuracy: 0.35823429541595925, Time Taken: 47.91s,  
Learning Rate: 0.007802199999999971 -> 0.  
00779559999999997  
372 Fold 2/5, Epoch 35/300, Train Loss: 12.  
425653384436998, Valid Loss: 1885.524097442627,  
Accuracy: 0.35823429541595925, Time Taken: 47.03s,  
Learning Rate: 0.00779559999999997 -> 0.
```

```
372 00778899999999997
373 Fold 2/5, Epoch 36/300, Train Loss: 11.
628886085413399, Valid Loss: 18948.508666992188,
Accuracy: 0.35823429541595925, Time Taken: 46.81s,
Learning Rate: 0.00778899999999997 -> 0.
007782399999999971
374 Fold 2/5, Epoch 37/300, Train Loss: 14.
552972283787085, Valid Loss: 6858.746154785156,
Accuracy: 0.3837011884550085, Time Taken: 46.45s,
Learning Rate: 0.007782399999999971 -> 0.
007775799999999971
375 Fold 2/5, Epoch 38/300, Train Loss: 7.
163620809601753, Valid Loss: 9642.466270446777,
Accuracy: 0.35823429541595925, Time Taken: 46.72s,
Learning Rate: 0.007775799999999971 -> 0.
00776919999999997
376 Fold 2/5, Epoch 39/300, Train Loss: 11.
971167713796717, Valid Loss: 2370.6074934005737,
Accuracy: 0.35823429541595925, Time Taken: 47.45s,
Learning Rate: 0.00776919999999997 -> 0.
00776259999999997
377 Fold 2/5, Epoch 40/300, Train Loss: 13.
143513964594149, Valid Loss: 12897.615921020508,
Accuracy: 0.35823429541595925, Time Taken: 47.57s,
Learning Rate: 0.00776259999999997 -> 0.
00775599999999997
378 Fold 2/5, Epoch 41/300, Train Loss: 10.
429861575742507, Valid Loss: 10771.19302368164,
Accuracy: 0.2835314091680815, Time Taken: 47.54s,
Learning Rate: 0.00775599999999997 -> 0.
0077493999999999705
379 Fold 2/5, Epoch 42/300, Train Loss: 9.
141458426813415, Valid Loss: 2346.8141174316406,
Accuracy: 0.35823429541595925, Time Taken: 47.76s,
Learning Rate: 0.0077493999999999705 -> 0.
007742799999999971
380 Fold 2/5, Epoch 43/300, Train Loss: 25.
715918049884664, Valid Loss: 88747.44799804688,
Accuracy: 0.35823429541595925, Time Taken: 47.01s,
Learning Rate: 0.007742799999999971 -> 0.
007736199999999971
```

381 Fold 2/5, Epoch 44/300, Train Loss: 21.
14075319878657, Valid Loss: 10120.124816894531,
Accuracy: 0.35823429541595925, Time Taken: 46.73s,
Learning Rate: 0.007736199999999971 -> 0.
007729599999999971

382 Fold 2/5, Epoch 45/300, Train Loss: 13.
172626381427222, Valid Loss: 6294.319259643555,
Accuracy: 0.2835314091680815, Time Taken: 46.20s,
Learning Rate: 0.007729599999999971 -> 0.
007722999999999971

383 Fold 2/5, Epoch 46/300, Train Loss: 13.
164355349318726, Valid Loss: 13439.825500488281,
Accuracy: 0.2835314091680815, Time Taken: 46.71s,
Learning Rate: 0.007722999999999971 -> 0.
007716399999999971

384 Fold 2/5, Epoch 47/300, Train Loss: 13.
194275535036923, Valid Loss: 3522.472831726074,
Accuracy: 0.49575551782682514, Time Taken: 47.19s,
Learning Rate: 0.007716399999999971 -> 0.
0077097999999999715

385 Fold 2/5, Epoch 48/300, Train Loss: 14.
240721186732117, Valid Loss: 9431.463012695312,
Accuracy: 0.35823429541595925, Time Taken: 46.94s,
Learning Rate: 0.0077097999999999715 -> 0.
007703199999999972

386 Fold 2/5, Epoch 49/300, Train Loss: 8.
183358139434148, Valid Loss: 7691.838470458984,
Accuracy: 0.2835314091680815, Time Taken: 47.41s,
Learning Rate: 0.007703199999999972 -> 0.
007696599999999972

387 Fold 2/5, Epoch 50/300, Train Loss: 17.
34358890661389, Valid Loss: 17459.06753540039,
Accuracy: 0.35823429541595925, Time Taken: 47.10s,
Learning Rate: 0.007696599999999972 -> 0.
007689999999999972

388 Fold 2/5, Epoch 51/300, Train Loss: 9.
803062361754343, Valid Loss: 3172.2847290039062,
Accuracy: 0.2835314091680815, Time Taken: 46.69s,
Learning Rate: 0.007689999999999972 -> 0.
007683399999999971

389 Fold 2/5, Epoch 52/300, Train Loss: 12.1026520281888

```
389 , Valid Loss: 11634.046295166016, Accuracy: 0.  
2835314091680815, Time Taken: 46.64s, Learning Rate  
: 0.007683399999999971 -> 0.0076767999999999715  
390 Fold 2/5, Epoch 53/300, Train Loss: 10.  
168472681518011, Valid Loss: 12305.126403808594,  
Accuracy: 0.35823429541595925, Time Taken: 46.82s,  
Learning Rate: 0.0076767999999999715 -> 0.  
007670199999999972  
391 Fold 2/5, Epoch 54/300, Train Loss: 12.  
193575105703871, Valid Loss: 4486.4077072143555,  
Accuracy: 0.4567062818336163, Time Taken: 47.26s,  
Learning Rate: 0.007670199999999972 -> 0.  
007663599999999972  
392 Fold 2/5, Epoch 55/300, Train Loss: 9.  
369574481989005, Valid Loss: 8690.734375, Accuracy:  
0.35823429541595925, Time Taken: 47.44s, Learning  
Rate: 0.007663599999999972 -> 0.007656999999999972  
393 Fold 2/5, Epoch 56/300, Train Loss: 12.  
810880803745626, Valid Loss: 28107.650604248047,  
Accuracy: 0.35823429541595925, Time Taken: 47.16s,  
Learning Rate: 0.007656999999999972 -> 0.  
007650399999999971  
394 Fold 2/5, Epoch 57/300, Train Loss: 13.  
48908089744522, Valid Loss: 14626.685256958008,  
Accuracy: 0.35823429541595925, Time Taken: 47.40s,  
Learning Rate: 0.007650399999999971 -> 0.  
0076437999999999715  
395 Fold 2/5, Epoch 58/300, Train Loss: 16.  
335764904381534, Valid Loss: 6146.689743041992,  
Accuracy: 0.4770797962648557, Time Taken: 46.12s,  
Learning Rate: 0.0076437999999999715 -> 0.  
007637199999999972  
396 Fold 2/5, Epoch 59/300, Train Loss: 14.  
13733720766632, Valid Loss: 61933.98522949219,  
Accuracy: 0.35823429541595925, Time Taken: 46.89s,  
Learning Rate: 0.007637199999999972 -> 0.  
007630599999999971  
397 Fold 2/5, Epoch 60/300, Train Loss: 11.  
751476372110034, Valid Loss: 4999.129783630371,  
Accuracy: 0.35823429541595925, Time Taken: 46.45s,  
Learning Rate: 0.007630599999999971 -> 0.
```

397 007623999999999971
398 Fold 2/5, Epoch 61/300, Train Loss: 9.
768507895780587, Valid Loss: 3258.5876541137695,
Accuracy: 0.35823429541595925, Time Taken: 47.24s,
Learning Rate: 0.007623999999999971 -> 0.
007617399999999971
399 Fold 2/5, Epoch 62/300, Train Loss: 17.
431948379367526, Valid Loss: 15146.836395263672,
Accuracy: 0.2835314091680815, Time Taken: 47.40s,
Learning Rate: 0.007617399999999971 -> 0.
007610799999999971
400 Fold 2/5, Epoch 63/300, Train Loss: 9.
783820790673758, Valid Loss: 2036.270408630371,
Accuracy: 0.2835314091680815, Time Taken: 47.40s,
Learning Rate: 0.007610799999999971 -> 0.
007604199999999972
401 Fold 2/5, Epoch 64/300, Train Loss: 8.
033927002286475, Valid Loss: 6899.049667358398,
Accuracy: 0.2835314091680815, Time Taken: 47.52s,
Learning Rate: 0.007604199999999972 -> 0.
007597599999999972
402 Fold 2/5, Epoch 65/300, Train Loss: 20.
47482271667569, Valid Loss: 29481.562927246094,
Accuracy: 0.2835314091680815, Time Taken: 46.63s,
Learning Rate: 0.007597599999999972 -> 0.
007590999999999971
403 Fold 2/5, Epoch 66/300, Train Loss: 18.
642956483293645, Valid Loss: 43779.87976074219,
Accuracy: 0.2835314091680815, Time Taken: 46.72s,
Learning Rate: 0.007590999999999971 -> 0.
007584399999999971
404 Fold 2/5, Epoch 67/300, Train Loss: 14.
338886900520151, Valid Loss: 1358.9203433990479,
Accuracy: 0.35823429541595925, Time Taken: 46.79s,
Learning Rate: 0.007584399999999971 -> 0.
007577799999999971
405 Fold 2/5, Epoch 68/300, Train Loss: 18.6382999682777
, Valid Loss: 4798.770195007324, Accuracy: 0.
35823429541595925, Time Taken: 47.27s, Learning Rate
: 0.007577799999999971 -> 0.0075711999999999715
406 Fold 2/5, Epoch 69/300, Train Loss: 10.

```
406 228160561812171, Valid Loss: 4946.510177612305,  
    Accuracy: 0.35823429541595925, Time Taken: 47.45s,  
    Learning Rate: 0.0075711999999999715 -> 0.  
    007564599999999972  
407 Fold 2/5, Epoch 70/300, Train Loss: 17.  
    97626841850988, Valid Loss: 2302.5610427856445,  
    Accuracy: 0.35823429541595925, Time Taken: 47.22s,  
    Learning Rate: 0.007564599999999972 -> 0.  
    007557999999999972  
408 Fold 2/5, Epoch 71/300, Train Loss: 22.  
    197471886027756, Valid Loss: 853.2911958694458,  
    Accuracy: 0.35823429541595925, Time Taken: 47.11s,  
    Learning Rate: 0.007557999999999972 -> 0.  
    007551399999999972  
409 Fold 2/5, Epoch 72/300, Train Loss: 16.  
    092770370860578, Valid Loss: 18236.170318603516,  
    Accuracy: 0.2835314091680815, Time Taken: 46.28s,  
    Learning Rate: 0.007551399999999972 -> 0.  
    007544799999999972  
410 Fold 2/5, Epoch 73/300, Train Loss: 18.  
    338671784546356, Valid Loss: 3108.746196746826,  
    Accuracy: 0.38030560271646857, Time Taken: 46.54s,  
    Learning Rate: 0.007544799999999972 -> 0.  
    007538199999999972  
411 Fold 2/5, Epoch 74/300, Train Loss: 18.  
    333952044697128, Valid Loss: 15479.14682006836,  
    Accuracy: 0.35823429541595925, Time Taken: 46.36s,  
    Learning Rate: 0.007538199999999972 -> 0.  
    0075315999999999725  
412 Fold 2/5, Epoch 75/300, Train Loss: 12.  
    891733846311816, Valid Loss: 9594.242141723633,  
    Accuracy: 0.35823429541595925, Time Taken: 46.74s,  
    Learning Rate: 0.0075315999999999725 -> 0.  
    007524999999999973  
413 Fold 2/5, Epoch 76/300, Train Loss: 9.  
    614008651766827, Valid Loss: 5856.550193786621,  
    Accuracy: 0.38030560271646857, Time Taken: 47.48s,  
    Learning Rate: 0.007524999999999973 -> 0.  
    007518399999999973  
414 Fold 2/5, Epoch 77/300, Train Loss: 8.07711355916231  
    , Valid Loss: 21627.056213378906, Accuracy: 0.
```

```
414 35823429541595925, Time Taken: 46.98s, Learning Rate  
: 0.007518399999999973 -> 0.007511799999999973  
415 Fold 2/5, Epoch 78/300, Train Loss: 10.  
48847348684568, Valid Loss: 4732.098457336426,  
Accuracy: 0.35823429541595925, Time Taken: 47.19s,  
Learning Rate: 0.007511799999999973 -> 0.  
007505199999999973  
416 Fold 2/5, Epoch 79/300, Train Loss: 6.  
685104766340862, Valid Loss: 6726.151657104492,  
Accuracy: 0.2835314091680815, Time Taken: 46.45s,  
Learning Rate: 0.007505199999999973 -> 0.  
007498599999999973  
417 Fold 2/5, Epoch 80/300, Train Loss: 9.  
350377419217708, Valid Loss: 1358.0135192871094,  
Accuracy: 0.35823429541595925, Time Taken: 46.73s,  
Learning Rate: 0.007498599999999973 -> 0.  
007491999999999973  
418 Fold 2/5, Epoch 81/300, Train Loss: 23.  
079329189104655, Valid Loss: 33762.345642089844,  
Accuracy: 0.2835314091680815, Time Taken: 46.19s,  
Learning Rate: 0.007491999999999973 -> 0.  
007485399999999973  
419 Fold 2/5, Epoch 82/300, Train Loss: 11.  
608738186007857, Valid Loss: 1542.163251876831,  
Accuracy: 0.35823429541595925, Time Taken: 46.73s,  
Learning Rate: 0.007485399999999973 -> 0.  
007478799999999973  
420 Fold 2/5, Epoch 83/300, Train Loss: 13.  
789503170750201, Valid Loss: 2725.169502258301,  
Accuracy: 0.2835314091680815, Time Taken: 47.33s,  
Learning Rate: 0.007478799999999973 -> 0.  
007472199999999973  
421 Fold 2/5, Epoch 84/300, Train Loss: 11.  
621474886075271, Valid Loss: 7347.986877441406,  
Accuracy: 0.35823429541595925, Time Taken: 47.59s,  
Learning Rate: 0.007472199999999973 -> 0.  
007465599999999973  
422 Fold 2/5, Epoch 85/300, Train Loss: 9.95474052206387  
, Valid Loss: 9411.55598449707, Accuracy: 0.  
4057724957555178, Time Taken: 47.64s, Learning Rate  
: 0.007465599999999973 -> 0.0074589999999999735
```

```
423 Fold 2/5, Epoch 86/300, Train Loss: 11.  
    46571973124398, Valid Loss: 6047.534896850586,  
    Accuracy: 0.35823429541595925, Time Taken: 46.63s,  
    Learning Rate: 0.007458999999999735 -> 0.  
    007452399999999974  
424 Fold 2/5, Epoch 87/300, Train Loss: 8.  
    049279846134658, Valid Loss: 6913.285140991211,  
    Accuracy: 0.35823429541595925, Time Taken: 46.16s,  
    Learning Rate: 0.007452399999999974 -> 0.  
    007445799999999974  
425 Fold 2/5, Epoch 88/300, Train Loss: 9.  
    502349730969287, Valid Loss: 17563.200317382812,  
    Accuracy: 0.35823429541595925, Time Taken: 46.26s,  
    Learning Rate: 0.007445799999999974 -> 0.  
    007439199999999974  
426 Fold 2/5, Epoch 89/300, Train Loss: 12.  
    787422978950502, Valid Loss: 7684.262847900391,  
    Accuracy: 0.2835314091680815, Time Taken: 47.08s,  
    Learning Rate: 0.007439199999999974 -> 0.  
    007432599999999973  
427 Fold 2/5, Epoch 90/300, Train Loss: 7.  
    888881863865066, Valid Loss: 9166.847793579102,  
    Accuracy: 0.35823429541595925, Time Taken: 47.10s,  
    Learning Rate: 0.007432599999999973 -> 0.  
    007425999999999973  
428 Fold 2/5, Epoch 91/300, Train Loss: 14.  
    626392440725937, Valid Loss: 32033.042419433594,  
    Accuracy: 0.2835314091680815, Time Taken: 48.24s,  
    Learning Rate: 0.007425999999999973 -> 0.  
    007419399999999974  
429 Fold 2/5, Epoch 92/300, Train Loss: 11.  
    690850059489499, Valid Loss: 10913.610252380371,  
    Accuracy: 0.2835314091680815, Time Taken: 47.55s,  
    Learning Rate: 0.007419399999999974 -> 0.  
    007412799999999974  
430 Fold 2/5, Epoch 93/300, Train Loss: 11.  
    81361336904142, Valid Loss: 755.3992042541504,  
    Accuracy: 0.35823429541595925, Time Taken: 47.34s,  
    Learning Rate: 0.007412799999999974 -> 0.  
    007406199999999974  
431 Fold 2/5, Epoch 94/300, Train Loss: 13.
```

431 900458395664046, Valid Loss: 10765.735900878906,
Accuracy: 0.35823429541595925, Time Taken: 46.55s,
Learning Rate: 0.007406199999999974 -> 0.
007399599999999973

432 Fold 2/5, Epoch 95/300, Train Loss: 15.7840312540378
, Valid Loss: 15950.423034667969, Accuracy: 0.
35823429541595925, Time Taken: 46.16s, Learning Rate
: 0.007399599999999973 -> 0.007392999999999973

433 Fold 2/5, Epoch 96/300, Train Loss: 14.
968183229719916, Valid Loss: 49999.78662109375,
Accuracy: 0.35823429541595925, Time Taken: 46.50s,
Learning Rate: 0.007392999999999973 -> 0.
0073863999999999735

434 Fold 2/5, Epoch 97/300, Train Loss: 20.
855983994848525, Valid Loss: 11368.965606689453,
Accuracy: 0.35823429541595925, Time Taken: 47.45s,
Learning Rate: 0.0073863999999999735 -> 0.
007379799999999974

435 Fold 2/5, Epoch 98/300, Train Loss: 9.
877323552760169, Valid Loss: 17322.695678710938,
Accuracy: 0.35823429541595925, Time Taken: 47.15s,
Learning Rate: 0.007379799999999974 -> 0.
007373199999999974

436 Fold 2/5, Epoch 99/300, Train Loss: 13.
39072052709788, Valid Loss: 8367.595565795898,
Accuracy: 0.35823429541595925, Time Taken: 47.71s,
Learning Rate: 0.007373199999999974 -> 0.
007366599999999973

437 Fold 2/5, Epoch 100/300, Train Loss: 13.
907919284539847, Valid Loss: 39786.261474609375,
Accuracy: 0.2835314091680815, Time Taken: 47.30s,
Learning Rate: 0.007366599999999973 -> 0.
007359999999999973

438 Fold 2/5, Epoch 101/300, Train Loss: 12.
705439251856859, Valid Loss: 12206.881927490234,
Accuracy: 0.35823429541595925, Time Taken: 46.40s,
Learning Rate: 0.007359999999999973 -> 0.
0073533999999999735

439 Fold 2/5, Epoch 102/300, Train Loss: 14.
7571357754335, Valid Loss: 891.908992767334,
Accuracy: 0.35823429541595925, Time Taken: 46.20s,

```
439 Learning Rate: 0.007353399999999735 -> 0.  
007346799999999974  
440 Fold 2/5, Epoch 103/300, Train Loss: 9.  
702865159035444, Valid Loss: 450.9321389198303,  
Accuracy: 0.3701188455008489, Time Taken: 46.43s,  
Learning Rate: 0.007346799999999974 -> 0.  
007340199999999974  
441 Fold 2/5, Epoch 104/300, Train Loss: 14.  
52727817347498, Valid Loss: 1589.3613636493683,  
Accuracy: 0.3633276740237691, Time Taken: 46.91s,  
Learning Rate: 0.007340199999999974 -> 0.  
007333599999999974  
442 Fold 2/5, Epoch 105/300, Train Loss: 6.  
521200415038836, Valid Loss: 5658.099990844727,  
Accuracy: 0.35823429541595925, Time Taken: 47.66s,  
Learning Rate: 0.007333599999999974 -> 0.  
007326999999999974  
443 Fold 2/5, Epoch 106/300, Train Loss: 14.  
544856943456615, Valid Loss: 1733.6808471679688,  
Accuracy: 0.2835314091680815, Time Taken: 49.05s,  
Learning Rate: 0.007326999999999974 -> 0.  
007320399999999974  
444 Fold 2/5, Epoch 107/300, Train Loss: 9.  
78090377014098, Valid Loss: 1482.8131866455078,  
Accuracy: 0.35823429541595925, Time Taken: 47.81s,  
Learning Rate: 0.007320399999999974 -> 0.  
0073137999999999745  
445 Fold 2/5, Epoch 108/300, Train Loss: 14.  
028595257539621, Valid Loss: 44331.23565673828,  
Accuracy: 0.35823429541595925, Time Taken: 44.87s,  
Learning Rate: 0.0073137999999999745 -> 0.  
007307199999999975  
446 Fold 2/5, Epoch 109/300, Train Loss: 32.  
46075568050897, Valid Loss: 16358.778549194336,  
Accuracy: 0.43463497453310695, Time Taken: 44.77s,  
Learning Rate: 0.007307199999999975 -> 0.  
007300599999999975  
447 Fold 2/5, Epoch 110/300, Train Loss: 10.  
539702000235067, Valid Loss: 811.8369455337524,  
Accuracy: 0.35823429541595925, Time Taken: 45.31s,  
Learning Rate: 0.007300599999999975 -> 0.
```

```
447 007293999999999975
448 Fold 2/5, Epoch 111/300, Train Loss: 6.
    233021525091651, Valid Loss: 2824.714500427246,
    Accuracy: 0.2835314091680815, Time Taken: 45.53s,
    Learning Rate: 0.007293999999999975 -> 0.
    007287399999999975
449 Fold 2/5, Epoch 112/300, Train Loss: 8.
    941149848709777, Valid Loss: 63086.13330078125,
    Accuracy: 0.35823429541595925, Time Taken: 45.92s,
    Learning Rate: 0.007287399999999975 -> 0.
    007280799999999975
450 Fold 2/5, Epoch 113/300, Train Loss: 10.
    596411768652136, Valid Loss: 15405.130493164062,
    Accuracy: 0.2835314091680815, Time Taken: 45.67s,
    Learning Rate: 0.007280799999999975 -> 0.
    007274199999999975
451 Fold 2/5, Epoch 114/300, Train Loss: 10.
    530676735011204, Valid Loss: 1518.6831169128418,
    Accuracy: 0.3599320882852292, Time Taken: 46.12s,
    Learning Rate: 0.007274199999999975 -> 0.
    007267599999999976
452 Fold 2/5, Epoch 115/300, Train Loss: 8.
    388013657011182, Valid Loss: 6316.3221435546875,
    Accuracy: 0.2835314091680815, Time Taken: 44.75s,
    Learning Rate: 0.007267599999999976 -> 0.
    007260999999999976
453 Fold 2/5, Epoch 116/300, Train Loss: 14.
    888611183239313, Valid Loss: 17679.348083496094,
    Accuracy: 0.2835314091680815, Time Taken: 45.19s,
    Learning Rate: 0.007260999999999976 -> 0.
    007254399999999976
454 Fold 2/5, Epoch 117/300, Train Loss: 14.
    05899953210507, Valid Loss: 8127.138736844063,
    Accuracy: 0.4855687606112054, Time Taken: 44.81s,
    Learning Rate: 0.007254399999999976 -> 0.
    007247799999999976
455 Fold 2/5, Epoch 118/300, Train Loss: 11.
    394560060117925, Valid Loss: 19344.48388671875,
    Accuracy: 0.2835314091680815, Time Taken: 46.01s,
    Learning Rate: 0.007247799999999976 -> 0.
    007241199999999976
```

456 Fold 2/5, Epoch 119/300, Train Loss: 16.
086025973193514, Valid Loss: 12785.622192382812,
Accuracy: 0.35823429541595925, Time Taken: 47.23s,
Learning Rate: 0.007241199999999976 -> 0.
0072345999999999765

457 Fold 2/5, Epoch 120/300, Train Loss: 14.
33104015427359, Valid Loss: 36827.020263671875,
Accuracy: 0.35823429541595925, Time Taken: 47.66s,
Learning Rate: 0.0072345999999999765 -> 0.
007227999999999977

458 Fold 2/5, Epoch 121/300, Train Loss: 13.
622379886414635, Valid Loss: 6106.6993408203125,
Accuracy: 0.2835314091680815, Time Taken: 47.66s,
Learning Rate: 0.007227999999999977 -> 0.
007221399999999977

459 Fold 2/5, Epoch 122/300, Train Loss: 6.
790690195773322, Valid Loss: 7053.70125579834,
Accuracy: 0.35823429541595925, Time Taken: 46.62s,
Learning Rate: 0.007221399999999977 -> 0.
007214799999999977

460 Fold 2/5, Epoch 123/300, Train Loss: 10.
650297956835278, Valid Loss: 4247.555469512939,
Accuracy: 0.35823429541595925, Time Taken: 46.86s,
Learning Rate: 0.007214799999999977 -> 0.
007208199999999977

461 Fold 2/5, Epoch 124/300, Train Loss: 6.
305586522443226, Valid Loss: 673.6073608398438,
Accuracy: 0.3633276740237691, Time Taken: 47.17s,
Learning Rate: 0.007208199999999977 -> 0.
007201599999999977

462 Fold 2/5, Epoch 125/300, Train Loss: 14.
791592030423256, Valid Loss: 30176.5263671875,
Accuracy: 0.35823429541595925, Time Taken: 48.15s,
Learning Rate: 0.007201599999999977 -> 0.
007194999999999975

463 Fold 2/5, Epoch 126/300, Train Loss: 12.
136305454870921, Valid Loss: 4679.98388671875,
Accuracy: 0.35823429541595925, Time Taken: 47.59s,
Learning Rate: 0.007194999999999975 -> 0.
007188399999999978

464 Fold 2/5, Epoch 127/300, Train Loss: 15.

```
464 562751558660864, Valid Loss: 3524.0438919067383,  
Accuracy: 0.35823429541595925, Time Taken: 47.49s,  
Learning Rate: 0.007188399999999978 -> 0.  
007181799999999978  
465 Fold 2/5, Epoch 128/300, Train Loss: 6.  
6940255987102395, Valid Loss: 2271.3478507995605,  
Accuracy: 0.35823429541595925, Time Taken: 47.70s,  
Learning Rate: 0.007181799999999978 -> 0.  
007175199999999978  
466 Fold 2/5, Epoch 129/300, Train Loss: 8.  
050394934900737, Valid Loss: 5952.223876953125,  
Accuracy: 0.35823429541595925, Time Taken: 47.12s,  
Learning Rate: 0.007175199999999978 -> 0.  
007168599999999978  
467 Fold 2/5, Epoch 130/300, Train Loss: 6.  
190987584103752, Valid Loss: 11166.030349731445,  
Accuracy: 0.35823429541595925, Time Taken: 46.22s,  
Learning Rate: 0.007168599999999978 -> 0.  
007161999999999978  
468 Fold 2/5, Epoch 131/300, Train Loss: 7.  
133622122073195, Valid Loss: 56062.91027832031,  
Accuracy: 0.2835314091680815, Time Taken: 46.15s,  
Learning Rate: 0.007161999999999978 -> 0.  
007155399999999978  
469 Fold 2/5, Epoch 132/300, Train Loss: 9.  
972005298340477, Valid Loss: 23473.46646118164,  
Accuracy: 0.2835314091680815, Time Taken: 46.48s,  
Learning Rate: 0.007155399999999978 -> 0.  
007148799999999978  
470 Fold 2/5, Epoch 133/300, Train Loss: 16.  
71107191919348, Valid Loss: 6717.233673095703,  
Accuracy: 0.35823429541595925, Time Taken: 47.40s,  
Learning Rate: 0.007148799999999978 -> 0.  
007142199999999978  
471 Fold 2/5, Epoch 134/300, Train Loss: 20.  
688662203759232, Valid Loss: 5081.416114807129,  
Accuracy: 0.2835314091680815, Time Taken: 47.50s,  
Learning Rate: 0.007142199999999978 -> 0.  
007135599999999978  
472 Fold 2/5, Epoch 135/300, Train Loss: 9.  
789232133945148, Valid Loss: 12670.383972167969,
```

472 Accuracy: 0.2835314091680815, Time Taken: 47.11s,
Learning Rate: 0.007135599999999978 -> 0.
007128999999999978

473 Fold 2/5, Epoch 136/300, Train Loss: 6.
4915396785306605, Valid Loss: 973.3986701965332,
Accuracy: 0.35823429541595925, Time Taken: 47.19s,
Learning Rate: 0.007128999999999978 -> 0.
007122399999999978

474 Fold 2/5, Epoch 137/300, Train Loss: 7.
181130368380924, Valid Loss: 7973.787612915039,
Accuracy: 0.2835314091680815, Time Taken: 46.41s,
Learning Rate: 0.007122399999999978 -> 0.
0071157999999999786

475 Fold 2/5, Epoch 138/300, Train Loss: 12.
2018245893427, Valid Loss: 6681.893997192383,
Accuracy: 0.35823429541595925, Time Taken: 46.05s,
Learning Rate: 0.0071157999999999786 -> 0.
007109199999999978

476 Fold 2/5, Epoch 139/300, Train Loss: 10.
596906921817979, Valid Loss: 5929.386291503906,
Accuracy: 0.2835314091680815, Time Taken: 46.48s,
Learning Rate: 0.007109199999999978 -> 0.
007102599999999978

477 Fold 2/5, Epoch 140/300, Train Loss: 7.
85537668404177, Valid Loss: 3856.150493621826,
Accuracy: 0.35823429541595925, Time Taken: 47.17s,
Learning Rate: 0.007102599999999978 -> 0.
007095999999999978

478 Fold 2/5, Epoch 141/300, Train Loss: 13.
013621925914045, Valid Loss: 53485.75537109375,
Accuracy: 0.35823429541595925, Time Taken: 47.56s,
Learning Rate: 0.007095999999999978 -> 0.
007089399999999978

479 Fold 2/5, Epoch 142/300, Train Loss: 12.
08807329919249, Valid Loss: 19284.105743408203,
Accuracy: 0.35823429541595925, Time Taken: 47.81s,
Learning Rate: 0.007089399999999978 -> 0.
0070827999999999785

480 Fold 2/5, Epoch 143/300, Train Loss: 13.
59641950584473, Valid Loss: 12388.459411621094,
Accuracy: 0.2835314091680815, Time Taken: 47.58s,

```
480 Learning Rate: 0.007082799999999785 -> 0.  
007076199999999979  
481 Fold 2/5, Epoch 144/300, Train Loss: 17.  
657803362393697, Valid Loss: 18048.522674560547,  
Accuracy: 0.2835314091680815, Time Taken: 46.80s,  
Learning Rate: 0.007076199999999979 -> 0.  
007069599999999978  
482 Fold 2/5, Epoch 145/300, Train Loss: 13.  
579995766077394, Valid Loss: 28920.800903320312,  
Accuracy: 0.35823429541595925, Time Taken: 46.63s,  
Learning Rate: 0.007069599999999978 -> 0.  
007062999999999978  
483 Fold 2/5, Epoch 146/300, Train Loss: 9.  
797017586734942, Valid Loss: 10254.664901733398,  
Accuracy: 0.35823429541595925, Time Taken: 46.25s,  
Learning Rate: 0.007062999999999978 -> 0.  
007056399999999974  
484 Fold 2/5, Epoch 147/300, Train Loss: 11.  
010380187168684, Valid Loss: 1774.6213417053223,  
Accuracy: 0.35823429541595925, Time Taken: 46.79s,  
Learning Rate: 0.007056399999999974 -> 0.  
007049799999999977  
485 Fold 2/5, Epoch 148/300, Train Loss: 9.  
210395383469688, Valid Loss: 7646.517013549805,  
Accuracy: 0.35823429541595925, Time Taken: 47.16s,  
Learning Rate: 0.007049799999999977 -> 0.  
007043199999999976  
486 Fold 2/5, Epoch 149/300, Train Loss: 19.  
183817814029027, Valid Loss: 1702.260829925537,  
Accuracy: 0.35823429541595925, Time Taken: 47.30s,  
Learning Rate: 0.007043199999999976 -> 0.  
007036599999999976  
487 Fold 2/5, Epoch 150/300, Train Loss: 14.  
361041755052348, Valid Loss: 15661.291381835938,  
Accuracy: 0.35823429541595925, Time Taken: 47.85s,  
Learning Rate: 0.007036599999999976 -> 0.  
007029999999999976  
488 Fold 2/5, Epoch 151/300, Train Loss: 10.  
865432669217029, Valid Loss: 12401.006805419922,  
Accuracy: 0.366723259762309, Time Taken: 46.08s,  
Learning Rate: 0.007029999999999976 -> 0.
```

```
488 007023399999999765
489 Fold 2/5, Epoch 152/300, Train Loss: 13.
    738389740632599, Valid Loss: 5180.482727050781,
    Accuracy: 0.2835314091680815, Time Taken: 47.36s,
    Learning Rate: 0.007023399999999765 -> 0.
    007016799999999977
490 Fold 2/5, Epoch 153/300, Train Loss: 9.
    548452583857536, Valid Loss: 23819.42318725586,
    Accuracy: 0.35823429541595925, Time Taken: 46.76s,
    Learning Rate: 0.00701679999999977 -> 0.
    007010199999999977
491 Fold 2/5, Epoch 154/300, Train Loss: 6.
    49433787843741, Valid Loss: 33299.654052734375,
    Accuracy: 0.2835314091680815, Time Taken: 46.77s,
    Learning Rate: 0.00701019999999977 -> 0.
    007003599999999977
492 Fold 2/5, Epoch 155/300, Train Loss: 8.
    39976931142872, Valid Loss: 9689.383277893066,
    Accuracy: 0.35823429541595925, Time Taken: 47.18s,
    Learning Rate: 0.00700359999999977 -> 0.
    006996999999999977
493 Fold 2/5, Epoch 156/300, Train Loss: 9.
    06505152648155, Valid Loss: 6629.012596130371,
    Accuracy: 0.35823429541595925, Time Taken: 47.17s,
    Learning Rate: 0.006996999999999977 -> 0.
    006990399999999977
494 Fold 2/5, Epoch 157/300, Train Loss: 20.
    086188683447872, Valid Loss: 9508.110122680664,
    Accuracy: 0.2835314091680815, Time Taken: 47.14s,
    Learning Rate: 0.006990399999999977 -> 0.
    006983799999999975
495 Fold 2/5, Epoch 158/300, Train Loss: 6.
    875334135898111, Valid Loss: 22391.47817993164,
    Accuracy: 0.35823429541595925, Time Taken: 46.66s,
    Learning Rate: 0.006983799999999975 -> 0.
    006977199999999978
496 Fold 2/5, Epoch 159/300, Train Loss: 14.
    386389074131806, Valid Loss: 15542.564819335938,
    Accuracy: 0.35823429541595925, Time Taken: 46.12s,
    Learning Rate: 0.006977199999999978 -> 0.
    006970599999999978
```

497 Fold 2/5, Epoch 160/300, Train Loss: 14.
183316384050565, Valid Loss: 4477.695056915283,
Accuracy: 0.3616298811544992, Time Taken: 47.07s,
Learning Rate: 0.006970599999999978 -> 0.
006963999999999978

498 Fold 2/5, Epoch 161/300, Train Loss: 12.
61986130987233, Valid Loss: 3587.319190979004,
Accuracy: 0.35823429541595925, Time Taken: 48.30s,
Learning Rate: 0.006963999999999978 -> 0.
006957399999999978

499 Fold 2/5, Epoch 162/300, Train Loss: 12.
21205595334896, Valid Loss: 4742.8251876831055,
Accuracy: 0.2835314091680815, Time Taken: 48.16s,
Learning Rate: 0.006957399999999978 -> 0.
006950799999999978

500 Fold 2/5, Epoch 163/300, Train Loss: 12.
631547111457769, Valid Loss: 7120.968711853027,
Accuracy: 0.35823429541595925, Time Taken: 48.55s,
Learning Rate: 0.006950799999999978 -> 0.
0069441999999999785

501 Fold 2/5, Epoch 164/300, Train Loss: 9.
874376227934611, Valid Loss: 12223.444351196289,
Accuracy: 0.35823429541595925, Time Taken: 47.93s,
Learning Rate: 0.0069441999999999785 -> 0.
006937599999999979

502 Fold 2/5, Epoch 165/300, Train Loss: 13.
242379022481085, Valid Loss: 12439.078735351562,
Accuracy: 0.2835314091680815, Time Taken: 48.45s,
Learning Rate: 0.006937599999999979 -> 0.
006930999999999979

503 Fold 2/5, Epoch 166/300, Train Loss: 24.
18461379522995, Valid Loss: 4343.329849243164,
Accuracy: 0.28522920203735147, Time Taken: 47.32s,
Learning Rate: 0.006930999999999979 -> 0.
006924399999999979

504 Fold 2/5, Epoch 167/300, Train Loss: 8.
910109617700083, Valid Loss: 46803.982849121094,
Accuracy: 0.35823429541595925, Time Taken: 46.76s,
Learning Rate: 0.006924399999999979 -> 0.
006917799999999978

505 Fold 2/5, Epoch 168/300, Train Loss: 14.

505 784995312271748, Valid Loss: 53920.059326171875,
Accuracy: 0.2835314091680815, Time Taken: 47.02s,
Learning Rate: 0.006917799999999978 -> 0.
0069111999999999785
506 Fold 2/5, Epoch 169/300, Train Loss: 5.
539210460016177, Valid Loss: 12507.663589477539,
Accuracy: 0.35823429541595925, Time Taken: 47.38s,
Learning Rate: 0.0069111999999999785 -> 0.
006904599999999979
507 Fold 2/5, Epoch 170/300, Train Loss: 9.
326757746303226, Valid Loss: 8881.134948730469,
Accuracy: 0.35823429541595925, Time Taken: 47.46s,
Learning Rate: 0.006904599999999979 -> 0.
006897999999999979
508 Fold 2/5, Epoch 171/300, Train Loss: 6.
020085014570851, Valid Loss: 19210.178009033203,
Accuracy: 0.38030560271646857, Time Taken: 48.16s,
Learning Rate: 0.006897999999999979 -> 0.
006891399999999979
509 Fold 2/5, Epoch 172/300, Train Loss: 12.
142317791765137, Valid Loss: 10587.70768737793,
Accuracy: 0.35823429541595925, Time Taken: 47.51s,
Learning Rate: 0.006891399999999979 -> 0.
006884799999999979
510 Fold 2/5, Epoch 173/300, Train Loss: 5.
358395054800585, Valid Loss: 6132.097930908203,
Accuracy: 0.2869269949066214, Time Taken: 46.55s,
Learning Rate: 0.006884799999999979 -> 0.
006878199999999979
511 Fold 2/5, Epoch 174/300, Train Loss: 14.
241823503256953, Valid Loss: 8403.068862915039,
Accuracy: 0.35823429541595925, Time Taken: 46.46s,
Learning Rate: 0.006878199999999979 -> 0.
0068715999999999795
512 Fold 2/5, Epoch 175/300, Train Loss: 11.
81645401154133, Valid Loss: 18898.205139160156,
Accuracy: 0.35823429541595925, Time Taken: 47.41s,
Learning Rate: 0.0068715999999999795 -> 0.
00686499999999998
513 Fold 2/5, Epoch 176/300, Train Loss: 12.
949790587666305, Valid Loss: 1936.2243881225586,

```
513 Accuracy: 0.366723259762309, Time Taken: 47.65s,  
Learning Rate: 0.00686499999999998 -> 0.  
00685839999999998  
514 Fold 2/5, Epoch 177/300, Train Loss: 7.  
753882980194836, Valid Loss: 4211.510604858398,  
Accuracy: 0.35823429541595925, Time Taken: 48.43s,  
Learning Rate: 0.00685839999999998 -> 0.  
00685179999999998  
515 Fold 2/5, Epoch 178/300, Train Loss: 16.  
0747820196695, Valid Loss: 2102.496702194214,  
Accuracy: 0.28522920203735147, Time Taken: 48.04s,  
Learning Rate: 0.00685179999999998 -> 0.  
00684519999999998  
516 Fold 2/5, Epoch 179/300, Train Loss: 8.  
873216550005546, Valid Loss: 430.9775619506836,  
Accuracy: 0.6213921901528013, Time Taken: 47.68s,  
Learning Rate: 0.00684519999999998 -> 0.  
00683859999999998  
517 Fold 2/5, Epoch 180/300, Train Loss: 10.  
2592546853455, Valid Loss: 3204.936325073242,  
Accuracy: 0.36502546689303905, Time Taken: 46.87s,  
Learning Rate: 0.00683859999999998 -> 0.  
006831999999999804  
518 Fold 2/5, Epoch 181/300, Train Loss: 7.  
711940331432588, Valid Loss: 2932.871723175049,  
Accuracy: 0.3599320882852292, Time Taken: 48.43s,  
Learning Rate: 0.0068319999999999804 -> 0.  
006825399999999981  
519 Fold 2/5, Epoch 182/300, Train Loss: 7.  
47849431248086, Valid Loss: 654.4207239151001,  
Accuracy: 0.44991511035653653, Time Taken: 47.70s,  
Learning Rate: 0.006825399999999981 -> 0.  
006818799999999981  
520 Fold 2/5, Epoch 183/300, Train Loss: 11.  
020524352023477, Valid Loss: 27388.419067382812,  
Accuracy: 0.2835314091680815, Time Taken: 48.15s,  
Learning Rate: 0.006818799999999981 -> 0.  
00681219999999998  
521 Fold 2/5, Epoch 184/300, Train Loss: 8.  
331129913197831, Valid Loss: 5585.389099121094,  
Accuracy: 0.35823429541595925, Time Taken: 48.44s,
```

```
521 Learning Rate: 0.00681219999999998 -> 0.  
00680559999999998  
522 Fold 2/5, Epoch 185/300, Train Loss: 5.  
837018291429595, Valid Loss: 15016.166320800781,  
Accuracy: 0.2835314091680815, Time Taken: 48.09s,  
Learning Rate: 0.00680559999999998 -> 0.  
00679899999999998  
523 Fold 2/5, Epoch 186/300, Train Loss: 10.  
033613213617423, Valid Loss: 2258.924892425537,  
Accuracy: 0.2903225806451613, Time Taken: 48.19s,  
Learning Rate: 0.00679899999999998 -> 0.  
006792399999999981  
524 Fold 2/5, Epoch 187/300, Train Loss: 21.  
038171079209782, Valid Loss: 4034.261577606201,  
Accuracy: 0.2835314091680815, Time Taken: 47.36s,  
Learning Rate: 0.006792399999999981 -> 0.  
006785799999999981  
525 Fold 2/5, Epoch 188/300, Train Loss: 17.  
199164551880585, Valid Loss: 26889.112915039062,  
Accuracy: 0.35823429541595925, Time Taken: 47.74s,  
Learning Rate: 0.006785799999999981 -> 0.  
006779199999999981  
526 Fold 2/5, Epoch 189/300, Train Loss: 11.  
09004223281976, Valid Loss: 2548.3148765563965,  
Accuracy: 0.2835314091680815, Time Taken: 45.88s,  
Learning Rate: 0.006779199999999981 -> 0.  
006772599999999981  
527 Fold 2/5, Epoch 190/300, Train Loss: 10.  
886285461523594, Valid Loss: 1814.2564544677734,  
Accuracy: 0.35823429541595925, Time Taken: 46.50s,  
Learning Rate: 0.006772599999999981 -> 0.  
006765999999999981  
528 Fold 2/5, Epoch 191/300, Train Loss: 6.  
016434957256509, Valid Loss: 1626.4532794952393,  
Accuracy: 0.32088285229202035, Time Taken: 46.25s,  
Learning Rate: 0.006765999999999981 -> 0.  
006759399999999981  
529 Fold 2/5, Epoch 192/300, Train Loss: 12.  
956104313910247, Valid Loss: 33527.60290527344,  
Accuracy: 0.35823429541595925, Time Taken: 46.93s,  
Learning Rate: 0.006759399999999981 -> 0.
```

```
529 006752799999999816
530 Fold 2/5, Epoch 193/300, Train Loss: 5.
    517368652757417, Valid Loss: 34238.27438354492,
    Accuracy: 0.35823429541595925, Time Taken: 47.02s,
    Learning Rate: 0.006752799999999816 -> 0.
    006746199999999981
531 Fold 2/5, Epoch 194/300, Train Loss: 10.
    319721394869651, Valid Loss: 14068.439453125,
    Accuracy: 0.35823429541595925, Time Taken: 45.33s,
    Learning Rate: 0.00674619999999981 -> 0.
    006739599999999981
532 Fold 2/5, Epoch 195/300, Train Loss: 5.
    685690207724143, Valid Loss: 10583.332748413086,
    Accuracy: 0.35823429541595925, Time Taken: 46.05s,
    Learning Rate: 0.00673959999999981 -> 0.
    006732999999999981
533 Fold 2/5, Epoch 196/300, Train Loss: 8.
    273245857333512, Valid Loss: 18316.973571777344,
    Accuracy: 0.35823429541595925, Time Taken: 47.32s,
    Learning Rate: 0.00673299999999981 -> 0.
    0067263999999999805
534 Fold 2/5, Epoch 197/300, Train Loss: 10.
    047881668304726, Valid Loss: 9516.99828338623,
    Accuracy: 0.35823429541595925, Time Taken: 48.32s,
    Learning Rate: 0.0067263999999999805 -> 0.
    006719799999999981
535 Fold 2/5, Epoch 198/300, Train Loss: 12.
    925732715556261, Valid Loss: 34799.387756347656,
    Accuracy: 0.2835314091680815, Time Taken: 48.96s,
    Learning Rate: 0.006719799999999981 -> 0.
    006713199999999981
536 Fold 2/5, Epoch 199/300, Train Loss: 15.
    962703164589358, Valid Loss: 8068.405456542969,
    Accuracy: 0.2835314091680815, Time Taken: 48.97s,
    Learning Rate: 0.006713199999999981 -> 0.
    006706599999999981
537 Fold 2/5, Epoch 200/300, Train Loss: 14.
    88063651285821, Valid Loss: 18789.468353271484,
    Accuracy: 0.35823429541595925, Time Taken: 48.03s,
    Learning Rate: 0.006706599999999981 -> 0.
    006699999999999981
```

538 Fold 2/5, Epoch 201/300, Train Loss: 14.
590895242951468, Valid Loss: 1370.4409828186035,
Accuracy: 0.35823429541595925, Time Taken: 47.89s,
Learning Rate: 0.00669999999999981 -> 0.
00669339999999981

539 Fold 2/5, Epoch 202/300, Train Loss: 12.
955068327308755, Valid Loss: 14582.066680908203,
Accuracy: 0.35823429541595925, Time Taken: 47.79s,
Learning Rate: 0.00669339999999981 -> 0.
006686799999999815

540 Fold 2/5, Epoch 203/300, Train Loss: 10.
559222889750238, Valid Loss: 1114.3346271514893,
Accuracy: 0.35823429541595925, Time Taken: 48.04s,
Learning Rate: 0.006686799999999815 -> 0.
00668019999999982

541 Fold 2/5, Epoch 204/300, Train Loss: 7.
83609845333357, Valid Loss: 5594.624732971191,
Accuracy: 0.5008488964346349, Time Taken: 48.60s,
Learning Rate: 0.00668019999999982 -> 0.
00667359999999981

542 Fold 2/5, Epoch 205/300, Train Loss: 12.
709351287510318, Valid Loss: 15159.309143066406,
Accuracy: 0.2835314091680815, Time Taken: 50.31s,
Learning Rate: 0.00667359999999981 -> 0.
00666699999999981

543 Fold 2/5, Epoch 206/300, Train Loss: 8.
809114476886691, Valid Loss: 10105.110809326172,
Accuracy: 0.35823429541595925, Time Taken: 48.74s,
Learning Rate: 0.00666699999999981 -> 0.
00666039999999981

544 Fold 2/5, Epoch 207/300, Train Loss: 5.
669205015880879, Valid Loss: 547.4958267211914,
Accuracy: 0.4770797962648557, Time Taken: 49.12s,
Learning Rate: 0.00666039999999981 -> 0.
00665379999999981

545 Fold 2/5, Epoch 208/300, Train Loss: 11.
45975383157066, Valid Loss: 2835.8560180664062,
Accuracy: 0.35823429541595925, Time Taken: 50.21s,
Learning Rate: 0.00665379999999981 -> 0.
00664719999999982

546 Fold 2/5, Epoch 209/300, Train Loss: 4.

546 20871548147277, Valid Loss: 2646.765354156494,
Accuracy: 0.432937181663837, Time Taken: 47.22s,
Learning Rate: 0.006647199999999982 -> 0.
006640599999999982

547 Fold 2/5, Epoch 210/300, Train Loss: 9.
225824569004057, Valid Loss: 306.17800664901733,
Accuracy: 0.4431239388794567, Time Taken: 46.18s,
Learning Rate: 0.006640599999999982 -> 0.
006633999999999982

548 Fold 2/5, Epoch 211/300, Train Loss: 13.
666383712972705, Valid Loss: 20083.385620117188,
Accuracy: 0.35823429541595925, Time Taken: 47.66s,
Learning Rate: 0.006633999999999982 -> 0.
006627399999999982

549 Fold 2/5, Epoch 212/300, Train Loss: 11.
894240836192642, Valid Loss: 5285.77473449707,
Accuracy: 0.35823429541595925, Time Taken: 48.07s,
Learning Rate: 0.006627399999999982 -> 0.
006620799999999982

550 Fold 2/5, Epoch 213/300, Train Loss: 7.
716817652955302, Valid Loss: 4801.907600402832,
Accuracy: 0.35823429541595925, Time Taken: 48.89s,
Learning Rate: 0.006620799999999982 -> 0.
006614199999999982

551 Fold 2/5, Epoch 214/300, Train Loss: 19.
822937187520267, Valid Loss: 3345.1410369873047,
Accuracy: 0.35823429541595925, Time Taken: 49.23s,
Learning Rate: 0.006614199999999982 -> 0.
006607599999999983

552 Fold 2/5, Epoch 215/300, Train Loss: 15.
19426048343342, Valid Loss: 22996.971557617188,
Accuracy: 0.35823429541595925, Time Taken: 49.02s,
Learning Rate: 0.006607599999999983 -> 0.
006600999999999983

553 Fold 2/5, Epoch 216/300, Train Loss: 6.
525613058908136, Valid Loss: 887.8003101348877,
Accuracy: 0.35823429541595925, Time Taken: 47.89s,
Learning Rate: 0.006600999999999983 -> 0.
006594399999999983

554 Fold 2/5, Epoch 217/300, Train Loss: 5.
3966547804757266, Valid Loss: 1239.4917221069336,

```
554 Accuracy: 0.4601018675721562, Time Taken: 48.62s,
    Learning Rate: 0.006594399999999983 -> 0.
    006587799999999983
555 Fold 2/5, Epoch 218/300, Train Loss: 5.
    587236340400514, Valid Loss: 19534.9892578125,
    Accuracy: 0.35823429541595925, Time Taken: 48.91s,
    Learning Rate: 0.006587799999999983 -> 0.
    006581199999999983
556 Fold 2/5, Epoch 219/300, Train Loss: 7.
    22629857297532, Valid Loss: 2596.3815155029297,
    Accuracy: 0.3599320882852292, Time Taken: 51.55s,
    Learning Rate: 0.006581199999999983 -> 0.
    006574599999999983
557 Fold 2/5, Epoch 220/300, Train Loss: 11.
    746657315168521, Valid Loss: 19114.93618774414,
    Accuracy: 0.2835314091680815, Time Taken: 49.40s,
    Learning Rate: 0.006574599999999983 -> 0.
    006567999999999984
558 Fold 2/5, Epoch 221/300, Train Loss: 6.
    755968060003344, Valid Loss: 1017.7062358856201,
    Accuracy: 0.35823429541595925, Time Taken: 49.17s,
    Learning Rate: 0.006567999999999984 -> 0.
    006561399999999984
559 Fold 2/5, Epoch 222/300, Train Loss: 6.
    014697798814701, Valid Loss: 12756.092071533203,
    Accuracy: 0.35823429541595925, Time Taken: 48.43s,
    Learning Rate: 0.006561399999999984 -> 0.
    006554799999999984
560 Fold 2/5, Epoch 223/300, Train Loss: 8.
    018305545926804, Valid Loss: 8453.643844604492,
    Accuracy: 0.35823429541595925, Time Taken: 46.58s,
    Learning Rate: 0.006554799999999984 -> 0.
    006548199999999984
561 Fold 2/5, Epoch 224/300, Train Loss: 18.
    87144506095875, Valid Loss: 7441.0120849609375,
    Accuracy: 0.2835314091680815, Time Taken: 46.52s,
    Learning Rate: 0.006548199999999984 -> 0.
    006541599999999984
562 Fold 2/5, Epoch 225/300, Train Loss: 22.
    73532558588375, Valid Loss: 3844.4568367004395,
    Accuracy: 0.5144312393887945, Time Taken: 47.18s,
```

```
562 Learning Rate: 0.00654159999999984 -> 0.  
00653499999999984  
563 Fold 2/5, Epoch 226/300, Train Loss: 16.  
375130496065005, Valid Loss: 12864.808059692383,  
Accuracy: 0.2835314091680815, Time Taken: 47.53s,  
Learning Rate: 0.00653499999999984 -> 0.  
00652839999999984  
564 Fold 2/5, Epoch 227/300, Train Loss: 8.  
87058083474632, Valid Loss: 643.0156183242798,  
Accuracy: 0.5382003395585738, Time Taken: 48.50s,  
Learning Rate: 0.00652839999999984 -> 0.  
00652179999999984  
565 Fold 2/5, Epoch 228/300, Train Loss: 12.  
301763444828124, Valid Loss: 53258.197021484375,  
Accuracy: 0.2835314091680815, Time Taken: 50.11s,  
Learning Rate: 0.00652179999999984 -> 0.  
00651519999999983  
566 Fold 2/5, Epoch 229/300, Train Loss: 10.  
904963901161212, Valid Loss: 1836.4441871643066,  
Accuracy: 0.2835314091680815, Time Taken: 48.74s,  
Learning Rate: 0.00651519999999983 -> 0.  
00650859999999983  
567 Fold 2/5, Epoch 230/300, Train Loss: 6.  
326612611831835, Valid Loss: 707.5097999572754,  
Accuracy: 0.35823429541595925, Time Taken: 46.50s,  
Learning Rate: 0.00650859999999983 -> 0.  
00650199999999983  
568 Fold 2/5, Epoch 231/300, Train Loss: 8.  
507350127754497, Valid Loss: 6822.351341247559,  
Accuracy: 0.35823429541595925, Time Taken: 46.06s,  
Learning Rate: 0.00650199999999983 -> 0.  
00649539999999984  
569 Fold 2/5, Epoch 232/300, Train Loss: 19.  
400820900365755, Valid Loss: 2553.861614227295,  
Accuracy: 0.35823429541595925, Time Taken: 46.18s,  
Learning Rate: 0.00649539999999984 -> 0.  
00648879999999984  
570 Fold 2/5, Epoch 233/300, Train Loss: 11.  
919375921300777, Valid Loss: 26389.227478027344,  
Accuracy: 0.35823429541595925, Time Taken: 47.92s,  
Learning Rate: 0.006488799999999984 -> 0.
```

570 006482199999999984
571 Fold 2/5, Epoch 234/300, Train Loss: 20.
203644140691527, Valid Loss: 66025.19958496094,
Accuracy: 0.2835314091680815, Time Taken: 47.51s,
Learning Rate: 0.006482199999999984 -> 0.
0064755999999999984
572 Fold 2/5, Epoch 235/300, Train Loss: 13.
266375451403476, Valid Loss: 15439.168487548828,
Accuracy: 0.35823429541595925, Time Taken: 47.88s,
Learning Rate: 0.006475599999999984 -> 0.
0064689999999999984
573 Fold 2/5, Epoch 236/300, Train Loss: 12.
74964723335277, Valid Loss: 16572.570098876953,
Accuracy: 0.35823429541595925, Time Taken: 49.71s,
Learning Rate: 0.006468999999999984 -> 0.
0064623999999999845
574 Fold 2/5, Epoch 237/300, Train Loss: 4.
047078221588465, Valid Loss: 3404.444534301758,
Accuracy: 0.35823429541595925, Time Taken: 48.51s,
Learning Rate: 0.0064623999999999845 -> 0.
006455799999999985
575 Fold 2/5, Epoch 238/300, Train Loss: 7.
011469168315134, Valid Loss: 9345.518310546875,
Accuracy: 0.35823429541595925, Time Taken: 47.79s,
Learning Rate: 0.006455799999999985 -> 0.
006449199999999985
576 Fold 2/5, Epoch 239/300, Train Loss: 6.
6983269001377765, Valid Loss: 6872.340026855469,
Accuracy: 0.35823429541595925, Time Taken: 48.33s,
Learning Rate: 0.006449199999999985 -> 0.
006442599999999985
577 Fold 2/5, Epoch 240/300, Train Loss: 11.
168532477031917, Valid Loss: 3243.1545791625977,
Accuracy: 0.35823429541595925, Time Taken: 47.83s,
Learning Rate: 0.006442599999999985 -> 0.
006435999999999985
578 Fold 2/5, Epoch 241/300, Train Loss: 12.
663696732959707, Valid Loss: 11064.95980834961,
Accuracy: 0.35823429541595925, Time Taken: 47.37s,
Learning Rate: 0.006435999999999985 -> 0.
006429399999999984

579 Fold 2/5, Epoch 242/300, Train Loss: 7.
027617095455586, Valid Loss: 8311.908432006836,
Accuracy: 0.35823429541595925, Time Taken: 52.61s,
Learning Rate: 0.00642939999999984 -> 0.
00642279999999985

580 Fold 2/5, Epoch 243/300, Train Loss: 8.
219109382854684, Valid Loss: 43.82964187860489,
Accuracy: 0.6638370118845501, Time Taken: 47.94s,
Learning Rate: 0.00642279999999985 -> 0.
00641619999999985

581 Fold 2/5, Epoch 244/300, Train Loss: 6.
762785076948374, Valid Loss: 22700.99935913086,
Accuracy: 0.35823429541595925, Time Taken: 48.08s,
Learning Rate: 0.00641619999999985 -> 0.
00640959999999985

582 Fold 2/5, Epoch 245/300, Train Loss: 12.
70020260575996, Valid Loss: 12293.916687011719,
Accuracy: 0.35823429541595925, Time Taken: 47.94s,
Learning Rate: 0.00640959999999985 -> 0.
00640299999999985

583 Fold 2/5, Epoch 246/300, Train Loss: 9.
309344271611874, Valid Loss: 37198.58184814453,
Accuracy: 0.35823429541595925, Time Taken: 47.96s,
Learning Rate: 0.00640299999999985 -> 0.
00639639999999985

584 Fold 2/5, Epoch 247/300, Train Loss: 19.
13053372910767, Valid Loss: 4703.154861450195,
Accuracy: 0.35823429541595925, Time Taken: 48.10s,
Learning Rate: 0.00639639999999985 -> 0.
006389799999999846

585 Fold 2/5, Epoch 248/300, Train Loss: 18.
255916211404642, Valid Loss: 19588.352111816406,
Accuracy: 0.2835314091680815, Time Taken: 48.74s,
Learning Rate: 0.006389799999999846 -> 0.
00638319999999985

586 Fold 2/5, Epoch 249/300, Train Loss: 22.
547815343065558, Valid Loss: 12851.289855957031,
Accuracy: 0.35823429541595925, Time Taken: 48.42s,
Learning Rate: 0.00638319999999985 -> 0.
00637659999999985

587 Fold 2/5, Epoch 250/300, Train Loss: 13.

587 56774999509492, Valid Loss: 3140.532875061035,
Accuracy: 0.35823429541595925, Time Taken: 47.60s,
Learning Rate: 0.006376599999999985 -> 0.
00636999999999985

588 Fold 2/5, Epoch 251/300, Train Loss: 7.
996470428289907, Valid Loss: 1858.2690086364746,
Accuracy: 0.35823429541595925, Time Taken: 47.35s,
Learning Rate: 0.00636999999999985 -> 0.
00636339999999985

589 Fold 2/5, Epoch 252/300, Train Loss: 6.9382861484103
, Valid Loss: 4100.6975173950195, Accuracy: 0.
35823429541595925, Time Taken: 46.90s, Learning Rate
: 0.00636339999999985 -> 0.00635679999999985

590 Fold 2/5, Epoch 253/300, Train Loss: 9.
398976579157576, Valid Loss: 7470.798095703125,
Accuracy: 0.2835314091680815, Time Taken: 47.62s,
Learning Rate: 0.00635679999999985 -> 0.
006350199999999855

591 Fold 2/5, Epoch 254/300, Train Loss: 5.
467069143594479, Valid Loss: 7783.232498168945,
Accuracy: 0.35823429541595925, Time Taken: 48.38s,
Learning Rate: 0.006350199999999855 -> 0.
00634359999999985

592 Fold 2/5, Epoch 255/300, Train Loss: 9.
14766398337719, Valid Loss: 4168.81608581543,
Accuracy: 0.35823429541595925, Time Taken: 49.39s,
Learning Rate: 0.00634359999999985 -> 0.
00633699999999984

593 Fold 2/5, Epoch 256/300, Train Loss: 9.
794688410470485, Valid Loss: 13775.028869628906,
Accuracy: 0.35823429541595925, Time Taken: 48.40s,
Learning Rate: 0.00633699999999984 -> 0.
00633039999999984

594 Fold 2/5, Epoch 257/300, Train Loss: 10.
459942949024931, Valid Loss: 5015.489952087402,
Accuracy: 0.2835314091680815, Time Taken: 48.23s,
Learning Rate: 0.00633039999999984 -> 0.
006323799999999845

595 Fold 2/5, Epoch 258/300, Train Loss: 4.
280641718380614, Valid Loss: 1434.4804420471191,
Accuracy: 0.2869269949066214, Time Taken: 48.51s,

```
595 Learning Rate: 0.006323799999999845 -> 0.  
00631719999999985  
596 Fold 2/5, Epoch 259/300, Train Loss: 16.  
084368046549635, Valid Loss: 24587.55242919922,  
Accuracy: 0.2835314091680815, Time Taken: 47.60s,  
Learning Rate: 0.00631719999999985 -> 0.  
00631059999999985  
597 Fold 2/5, Epoch 260/300, Train Loss: 11.  
234801048333368, Valid Loss: 31281.19403076172,  
Accuracy: 0.2835314091680815, Time Taken: 47.11s,  
Learning Rate: 0.00631059999999985 -> 0.  
00630399999999984  
598 Fold 2/5, Epoch 261/300, Train Loss: 6.  
556737852952583, Valid Loss: 13999.814086914062,  
Accuracy: 0.35823429541595925, Time Taken: 46.09s,  
Learning Rate: 0.00630399999999984 -> 0.  
00629739999999984  
599 Fold 2/5, Epoch 262/300, Train Loss: 11.  
861458939995982, Valid Loss: 1529.9685049057007,  
Accuracy: 0.4601018675721562, Time Taken: 46.22s,  
Learning Rate: 0.00629739999999984 -> 0.  
006290799999999836  
600 Fold 2/5, Epoch 263/300, Train Loss: 9.  
068328736394944, Valid Loss: 9785.829704284668,  
Accuracy: 0.35823429541595925, Time Taken: 46.70s,  
Learning Rate: 0.006290799999999836 -> 0.  
00628419999999984  
601 Fold 2/5, Epoch 264/300, Train Loss: 5.  
690855878799123, Valid Loss: 16834.5927734375,  
Accuracy: 0.35823429541595925, Time Taken: 46.99s,  
Learning Rate: 0.00628419999999984 -> 0.  
00627759999999984  
602 Fold 2/5, Epoch 265/300, Train Loss: 14.  
720725996059377, Valid Loss: 12571.787292480469,  
Accuracy: 0.35823429541595925, Time Taken: 46.26s,  
Learning Rate: 0.00627759999999984 -> 0.  
00627099999999984  
603 Fold 2/5, Epoch 266/300, Train Loss: 12.  
259562005933763, Valid Loss: 6200.079521179199,  
Accuracy: 0.3921901528013582, Time Taken: 45.80s,  
Learning Rate: 0.00627099999999984 -> 0.
```

```
603 006264399999999984
604 Fold 2/5, Epoch 267/300, Train Loss: 7.
    470069574177189, Valid Loss: 10120.282775878906,
    Accuracy: 0.2835314091680815, Time Taken: 45.93s,
    Learning Rate: 0.006264399999999984 -> 0.
    006257799999999984
605 Fold 2/5, Epoch 268/300, Train Loss: 8.
    811996748010674, Valid Loss: 941.6863307952881,
    Accuracy: 0.2937181663837012, Time Taken: 46.01s,
    Learning Rate: 0.006257799999999984 -> 0.
    006251199999999984
606 Fold 2/5, Epoch 269/300, Train Loss: 6.
    557221166066181, Valid Loss: 679.0224165916443,
    Accuracy: 0.5942275042444821, Time Taken: 46.18s,
    Learning Rate: 0.006251199999999984 -> 0.
    006244599999999984
607 Fold 2/5, Epoch 270/300, Train Loss: 13.
    635402015623749, Valid Loss: 4761.252662658691,
    Accuracy: 0.35823429541595925, Time Taken: 46.35s,
    Learning Rate: 0.006244599999999984 -> 0.
    006237999999999983
608 Fold 2/5, Epoch 271/300, Train Loss: 14.
    953782240069701, Valid Loss: 27593.75518798828,
    Accuracy: 0.35823429541595925, Time Taken: 46.37s,
    Learning Rate: 0.006237999999999983 -> 0.
    006231399999999983
609 Fold 2/5, Epoch 272/300, Train Loss: 7.
    822073616422368, Valid Loss: 23426.96160888672,
    Accuracy: 0.2835314091680815, Time Taken: 46.31s,
    Learning Rate: 0.006231399999999983 -> 0.
    0062247999999999835
610 Fold 2/5, Epoch 273/300, Train Loss: 16.
    711543088881307, Valid Loss: 21584.02471923828,
    Accuracy: 0.35823429541595925, Time Taken: 44.91s,
    Learning Rate: 0.0062247999999999835 -> 0.
    006218199999999984
611 Fold 2/5, Epoch 274/300, Train Loss: 9.
    916309763764245, Valid Loss: 11969.336563110352,
    Accuracy: 0.35823429541595925, Time Taken: 45.46s,
    Learning Rate: 0.006218199999999984 -> 0.
    006211599999999984
```

```
612 Fold 2/5, Epoch 275/300, Train Loss: 10.  
810081620691673, Valid Loss: 14325.36181640625,  
Accuracy: 0.35823429541595925, Time Taken: 45.50s,  
Learning Rate: 0.006211599999999984 -> 0.  
00620499999999984  
613 Fold 2/5, Epoch 276/300, Train Loss: 5.  
222806610674906, Valid Loss: 2892.7378540039062,  
Accuracy: 0.2835314091680815, Time Taken: 46.08s,  
Learning Rate: 0.006204999999999984 -> 0.  
00619839999999983  
614 Fold 2/5, Epoch 277/300, Train Loss: 5.  
868386268195623, Valid Loss: 4740.966506958008,  
Accuracy: 0.35823429541595925, Time Taken: 46.58s,  
Learning Rate: 0.006198399999999983 -> 0.  
00619179999999983  
615 Fold 2/5, Epoch 278/300, Train Loss: 13.  
3318702669009, Valid Loss: 9612.420959472656,  
Accuracy: 0.35823429541595925, Time Taken: 46.47s,  
Learning Rate: 0.006191799999999983 -> 0.  
00618519999999984  
616 Fold 2/5, Epoch 279/300, Train Loss: 12.  
357010598656249, Valid Loss: 1196.654748916626,  
Accuracy: 0.35823429541595925, Time Taken: 46.75s,  
Learning Rate: 0.006185199999999984 -> 0.  
00617859999999984  
617 Fold 2/5, Epoch 280/300, Train Loss: 10.  
592156162095597, Valid Loss: 6251.876449584961,  
Accuracy: 0.35823429541595925, Time Taken: 45.18s,  
Learning Rate: 0.006178599999999984 -> 0.  
00617199999999984  
618 Fold 2/5, Epoch 281/300, Train Loss: 9.  
636320499212331, Valid Loss: 959.3391876220703,  
Accuracy: 0.3599320882852292, Time Taken: 45.44s,  
Learning Rate: 0.006171999999999984 -> 0.  
00616539999999984  
619 Fold 2/5, Epoch 282/300, Train Loss: 4.  
743134475061175, Valid Loss: 5436.619964599609,  
Accuracy: 0.2835314091680815, Time Taken: 45.37s,  
Learning Rate: 0.006165399999999984 -> 0.  
00615879999999984  
620 Fold 2/5, Epoch 283/300, Train Loss: 15.
```

620 78315749158055, Valid Loss: 6766.746620178223,
Accuracy: 0.35823429541595925, Time Taken: 45.91s,
Learning Rate: 0.006158799999999984 -> 0.
006152199999999984

621 Fold 2/5, Epoch 284/300, Train Loss: 7.
225425310386353, Valid Loss: 14147.442108154297,
Accuracy: 0.35823429541595925, Time Taken: 46.20s,
Learning Rate: 0.006152199999999984 -> 0.
006145599999999985

622 Fold 2/5, Epoch 285/300, Train Loss: 6.
201684188810968, Valid Loss: 6995.111572265625,
Accuracy: 0.35823429541595925, Time Taken: 48.08s,
Learning Rate: 0.006145599999999985 -> 0.
006138999999999984

623 Fold 2/5, Epoch 286/300, Train Loss: 10.
851446658760926, Valid Loss: 3616.00235748291,
Accuracy: 0.48047538200339557, Time Taken: 47.35s,
Learning Rate: 0.006138999999999984 -> 0.
006132399999999984

624 Fold 2/5, Epoch 287/300, Train Loss: 9.
09628803118499, Valid Loss: 1564.4935913085938,
Accuracy: 0.35823429541595925, Time Taken: 45.14s,
Learning Rate: 0.006132399999999984 -> 0.
006125799999999984

625 Fold 2/5, Epoch 288/300, Train Loss: 11.
815365456677018, Valid Loss: 1016.7936782836914,
Accuracy: 0.37181663837011886, Time Taken: 44.96s,
Learning Rate: 0.006125799999999984 -> 0.
006119199999999984

626 Fold 2/5, Epoch 289/300, Train Loss: 10.
441099342919061, Valid Loss: 22925.123260498047,
Accuracy: 0.35823429541595925, Time Taken: 45.36s,
Learning Rate: 0.006119199999999984 -> 0.
0061125999999999845

627 Fold 2/5, Epoch 290/300, Train Loss: 3.
917532721157622, Valid Loss: 19271.07534790039,
Accuracy: 0.35823429541595925, Time Taken: 45.00s,
Learning Rate: 0.0061125999999999845 -> 0.
006105999999999985

628 Fold 2/5, Epoch 291/300, Train Loss: 10.
904846525127972, Valid Loss: 3057.2377548217773,

```
628 Accuracy: 0.35823429541595925, Time Taken: 46.33s,  
Learning Rate: 0.006105999999999985 -> 0.  
006099399999999985  
629 Fold 2/5, Epoch 292/300, Train Loss: 8.  
655386419950284, Valid Loss: 44634.45782470703,  
Accuracy: 0.2835314091680815, Time Taken: 46.04s,  
Learning Rate: 0.006099399999999985 -> 0.  
006092799999999985  
630 Fold 2/5, Epoch 293/300, Train Loss: 9.  
040994446080036, Valid Loss: 1075.5877799987793,  
Accuracy: 0.35823429541595925, Time Taken: 46.35s,  
Learning Rate: 0.006092799999999985 -> 0.  
006086199999999985  
631 Fold 2/5, Epoch 294/300, Train Loss: 7.  
77378907398349, Valid Loss: 12408.74496459961,  
Accuracy: 0.35823429541595925, Time Taken: 45.65s,  
Learning Rate: 0.006086199999999985 -> 0.  
006079599999999985  
632 Fold 2/5, Epoch 295/300, Train Loss: 9.  
236585193756818, Valid Loss: 2649.326831817627,  
Accuracy: 0.2835314091680815, Time Taken: 47.00s,  
Learning Rate: 0.006079599999999985 -> 0.  
006072999999999985  
633 Fold 2/5, Epoch 296/300, Train Loss: 3.  
1682613746765007, Valid Loss: 1427.5176258087158,  
Accuracy: 0.37181663837011886, Time Taken: 45.39s,  
Learning Rate: 0.006072999999999985 -> 0.  
006066399999999985  
634 Fold 2/5, Epoch 297/300, Train Loss: 7.  
742984530443123, Valid Loss: 17581.73016357422,  
Accuracy: 0.2835314091680815, Time Taken: 45.58s,  
Learning Rate: 0.006066399999999985 -> 0.  
006059799999999985  
635 Fold 2/5, Epoch 298/300, Train Loss: 7.  
6241842700746085, Valid Loss: 5588.412002563477,  
Accuracy: 0.35823429541595925, Time Taken: 46.05s,  
Learning Rate: 0.006059799999999985 -> 0.  
006053199999999985  
636 Fold 2/5, Epoch 299/300, Train Loss: 9.  
57121126215001, Valid Loss: 5692.99080657959,  
Accuracy: 0.35823429541595925, Time Taken: 46.17s,
```

```
636 Learning Rate: 0.00605319999999985 -> 0.  
00604659999999985  
637 Fold 2/5, Epoch 300/300, Train Loss: 10.  
796590855842286, Valid Loss: 16969.48843383789,  
Accuracy: 0.35823429541595925, Time Taken: 46.15s,  
Learning Rate: 0.00604659999999985 -> 0.  
006039999999999855  
638  
639 Fold 3/5  
640 Train dataloader: 118 batches  
641 Valid dataloader: 30 batches  
642  
643 Fold 3/5, Epoch 1/300, Train Loss: 18.  
630713280196552, Valid Loss: 21279.413452148438,  
Accuracy: 0.2835314091680815, Time Taken: 45.85s,  
Learning Rate: 0.006039999999999855 -> 0.  
00603339999999986  
644 Fold 3/5, Epoch 2/300, Train Loss: 14.84723082479249  
, Valid Loss: 1526.837387084961, Accuracy: 0.  
2835314091680815, Time Taken: 44.90s, Learning Rate  
: 0.00603339999999986 -> 0.00602679999999986  
645 Fold 3/5, Epoch 3/300, Train Loss: 16.  
286987788775065, Valid Loss: 4036.426139831543,  
Accuracy: 0.35823429541595925, Time Taken: 45.31s,  
Learning Rate: 0.00602679999999986 -> 0.  
00602019999999986  
646 Fold 3/5, Epoch 4/300, Train Loss: 12.  
581626018480213, Valid Loss: 5264.025047302246,  
Accuracy: 0.2835314091680815, Time Taken: 45.52s,  
Learning Rate: 0.00602019999999986 -> 0.  
00601359999999986  
647 Fold 3/5, Epoch 5/300, Train Loss: 5.807201396673138  
, Valid Loss: 3674.8060302734375, Accuracy: 0.  
35823429541595925, Time Taken: 46.20s, Learning Rate  
: 0.00601359999999986 -> 0.00600699999999986  
648 Fold 3/5, Epoch 6/300, Train Loss: 8.34117885157352  
, Valid Loss: 2360.455177307129, Accuracy: 0.  
5551782682512734, Time Taken: 45.72s, Learning Rate  
: 0.00600699999999986 -> 0.006000399999999865  
649 Fold 3/5, Epoch 7/300, Train Loss: 8.42323746559188  
, Valid Loss: 1107.423240661621, Accuracy: 0.
```

```
649 35823429541595925, Time Taken: 46.91s, Learning Rate  
: 0.006000399999999865 -> 0.00599379999999987  
650 Fold 3/5, Epoch 8/300, Train Loss: 10.  
891875610874116, Valid Loss: 4348.622753143311,  
Accuracy: 0.35823429541595925, Time Taken: 47.38s,  
Learning Rate: 0.00599379999999987 -> 0.  
00598719999999987  
651 Fold 3/5, Epoch 9/300, Train Loss: 9.320920013656597  
, Valid Loss: 3657.6878814697266, Accuracy: 0.  
35823429541595925, Time Taken: 46.34s, Learning Rate  
: 0.00598719999999987 -> 0.00598059999999987  
652 Fold 3/5, Epoch 10/300, Train Loss: 9.38380592109416  
, Valid Loss: 386.79266834259033, Accuracy: 0.  
4091680814940577, Time Taken: 45.56s, Learning Rate  
: 0.00598059999999987 -> 0.00597399999999987  
653 Fold 3/5, Epoch 11/300, Train Loss: 10.  
514849680701952, Valid Loss: 9083.623611450195,  
Accuracy: 0.35823429541595925, Time Taken: 45.36s,  
Learning Rate: 0.00597399999999987 -> 0.  
00596739999999987  
654 Fold 3/5, Epoch 12/300, Train Loss: 6.  
031899565426681, Valid Loss: 4098.795501708984,  
Accuracy: 0.2835314091680815, Time Taken: 46.17s,  
Learning Rate: 0.00596739999999987 -> 0.  
005960799999999875  
655 Fold 3/5, Epoch 13/300, Train Loss: 12.  
372583003176121, Valid Loss: 24267.007934570312,  
Accuracy: 0.35823429541595925, Time Taken: 49.41s,  
Learning Rate: 0.005960799999999875 -> 0.  
00595419999999988  
656 Fold 3/5, Epoch 14/300, Train Loss: 7.  
749171950212337, Valid Loss: 27736.015625, Accuracy  
: 0.35823429541595925, Time Taken: 51.55s, Learning  
Rate: 0.00595419999999988 -> 0.00594759999999988  
657 Fold 3/5, Epoch 15/300, Train Loss: 11.  
530116280907746, Valid Loss: 6155.691101074219,  
Accuracy: 0.35823429541595925, Time Taken: 47.70s,  
Learning Rate: 0.00594759999999988 -> 0.  
00594099999999987  
658 Fold 3/5, Epoch 16/300, Train Loss: 11.  
65435684616051, Valid Loss: 6052.582290649414,
```

```
658 Accuracy: 0.2835314091680815, Time Taken: 46.68s,
Learning Rate: 0.00594099999999987 -> 0.
005934399999999987
659 Fold 3/5, Epoch 17/300, Train Loss: 17.
078965135684015, Valid Loss: 26881.926025390625,
Accuracy: 0.35823429541595925, Time Taken: 45.96s,
Learning Rate: 0.005934399999999987 -> 0.
005927799999999987
660 Fold 3/5, Epoch 18/300, Train Loss: 9.
642530359735169, Valid Loss: 4858.056938171387,
Accuracy: 0.35823429541595925, Time Taken: 46.79s,
Learning Rate: 0.005927799999999987 -> 0.
005921199999999988
661 Fold 3/5, Epoch 19/300, Train Loss: 10.
71621591789316, Valid Loss: 3935.586685180664,
Accuracy: 0.35823429541595925, Time Taken: 47.96s,
Learning Rate: 0.005921199999999988 -> 0.
005914599999999988
662 Fold 3/5, Epoch 20/300, Train Loss: 3.
982263281633446, Valid Loss: 2515.366802215576,
Accuracy: 0.35823429541595925, Time Taken: 47.20s,
Learning Rate: 0.005914599999999988 -> 0.
005907999999999988
663 Fold 3/5, Epoch 21/300, Train Loss: 5.
624596373651456, Valid Loss: 810.3150405883789,
Accuracy: 0.3599320882852292, Time Taken: 47.22s,
Learning Rate: 0.005907999999999988 -> 0.
005901399999999988
664 Fold 3/5, Epoch 22/300, Train Loss: 5.
356932220843124, Valid Loss: 5896.152938842773,
Accuracy: 0.35823429541595925, Time Taken: 47.34s,
Learning Rate: 0.005901399999999988 -> 0.
005894799999999987
665 Fold 3/5, Epoch 23/300, Train Loss: 8.
566506465445737, Valid Loss: 7854.975120544434,
Accuracy: 0.32088285229202035, Time Taken: 46.35s,
Learning Rate: 0.005894799999999987 -> 0.
0058881999999999875
666 Fold 3/5, Epoch 24/300, Train Loss: 8.
082984129379696, Valid Loss: 1815.6265602111816,
Accuracy: 0.35823429541595925, Time Taken: 46.55s,
```

```
666 Learning Rate: 0.005888199999999875 -> 0.  
005881599999999988  
667 Fold 3/5, Epoch 25/300, Train Loss: 7.  
227006188907274, Valid Loss: 11483.774322509766,  
Accuracy: 0.2835314091680815, Time Taken: 46.98s,  
Learning Rate: 0.005881599999999988 -> 0.  
005874999999999988  
668 Fold 3/5, Epoch 26/300, Train Loss: 6.  
869235778510825, Valid Loss: 4955.553497314453,  
Accuracy: 0.35823429541595925, Time Taken: 47.26s,  
Learning Rate: 0.005874999999999988 -> 0.  
005868399999999988  
669 Fold 3/5, Epoch 27/300, Train Loss: 15.  
280346918032667, Valid Loss: 1098.5021514892578,  
Accuracy: 0.3599320882852292, Time Taken: 47.21s,  
Learning Rate: 0.005868399999999988 -> 0.  
005861799999999988  
670 Fold 3/5, Epoch 28/300, Train Loss: 14.  
220687326422034, Valid Loss: 11122.710418701172,  
Accuracy: 0.2835314091680815, Time Taken: 47.20s,  
Learning Rate: 0.005861799999999988 -> 0.  
005855199999999988  
671 Fold 3/5, Epoch 29/300, Train Loss: 9.875301502876,  
Valid Loss: 913.7129707336426, Accuracy: 0.  
35823429541595925, Time Taken: 47.15s, Learning Rate  
: 0.005855199999999988 -> 0.005848599999999885  
672 Fold 3/5, Epoch 30/300, Train Loss: 8.  
115405109413693, Valid Loss: 28261.953186035156,  
Accuracy: 0.35823429541595925, Time Taken: 46.65s,  
Learning Rate: 0.0058485999999999885 -> 0.  
005841999999999989  
673 Fold 3/5, Epoch 31/300, Train Loss: 7.  
392138198609429, Valid Loss: 3507.707374572754,  
Accuracy: 0.35823429541595925, Time Taken: 46.22s,  
Learning Rate: 0.005841999999999989 -> 0.  
005835399999999989  
674 Fold 3/5, Epoch 32/300, Train Loss: 2.  
5664572635360026, Valid Loss: 5140.949012756348,  
Accuracy: 0.2835314091680815, Time Taken: 47.01s,  
Learning Rate: 0.005835399999999989 -> 0.  
005828799999999989
```

675 Fold 3/5, Epoch 33/300, Train Loss: 10.
333454322890798, Valid Loss: 723.806713104248,
Accuracy: 0.35823429541595925, Time Taken: 49.87s,
Learning Rate: 0.005828799999999989 -> 0.
005822199999999989

676 Fold 3/5, Epoch 34/300, Train Loss: 6.
807729401960239, Valid Loss: 14120.166412353516,
Accuracy: 0.35823429541595925, Time Taken: 47.59s,
Learning Rate: 0.005822199999999989 -> 0.
005815599999999989

677 Fold 3/5, Epoch 35/300, Train Loss: 8.
659367136400498, Valid Loss: 5706.304336547852,
Accuracy: 0.2835314091680815, Time Taken: 47.60s,
Learning Rate: 0.005815599999999989 -> 0.
0058089999999999895

678 Fold 3/5, Epoch 36/300, Train Loss: 11.
764110346668833, Valid Loss: 5220.213943481445,
Accuracy: 0.35823429541595925, Time Taken: 47.90s,
Learning Rate: 0.0058089999999999895 -> 0.
00580239999999999

679 Fold 3/5, Epoch 37/300, Train Loss: 13.
071937332525415, Valid Loss: 1642.1882972717285,
Accuracy: 0.35823429541595925, Time Taken: 46.39s,
Learning Rate: 0.00580239999999999 -> 0.
00579579999999999

680 Fold 3/5, Epoch 38/300, Train Loss: 16.
685970164742447, Valid Loss: 2424.886920928955,
Accuracy: 0.2835314091680815, Time Taken: 45.62s,
Learning Rate: 0.00579579999999999 -> 0.
00578919999999999

681 Fold 3/5, Epoch 39/300, Train Loss: 9.
854733800622482, Valid Loss: 1064.3944606781006,
Accuracy: 0.2835314091680815, Time Taken: 46.82s,
Learning Rate: 0.00578919999999999 -> 0.
00578259999999999

682 Fold 3/5, Epoch 40/300, Train Loss: 7.
340468699611879, Valid Loss: 1022.0200328826904,
Accuracy: 0.5840407470288624, Time Taken: 46.66s,
Learning Rate: 0.00578259999999999 -> 0.
00577599999999999

683 Fold 3/5, Epoch 41/300, Train Loss: 5.

683 187877949272574, Valid Loss: 802.2413997650146,
Accuracy: 0.3870967741935484, Time Taken: 46.99s,
Learning Rate: 0.005775999999999999 -> 0.
00576939999999999905
684 Fold 3/5, Epoch 42/300, Train Loss: 7.
695133670752731, Valid Loss: 7825.504180908203,
Accuracy: 0.2835314091680815, Time Taken: 47.29s,
Learning Rate: 0.0057693999999999905 -> 0.
005762799999999991
685 Fold 3/5, Epoch 43/300, Train Loss: 6.
901558514591427, Valid Loss: 1282.7850742340088,
Accuracy: 0.4074702886247878, Time Taken: 47.70s,
Learning Rate: 0.005762799999999991 -> 0.
005756199999999991
686 Fold 3/5, Epoch 44/300, Train Loss: 11.
704773458712525, Valid Loss: 5298.919364929199,
Accuracy: 0.35823429541595925, Time Taken: 46.90s,
Learning Rate: 0.005756199999999991 -> 0.
005749599999999991
687 Fold 3/5, Epoch 45/300, Train Loss: 8.
976152619700764, Valid Loss: 5851.37077331543,
Accuracy: 0.35823429541595925, Time Taken: 45.90s,
Learning Rate: 0.005749599999999991 -> 0.
005742999999999991
688 Fold 3/5, Epoch 46/300, Train Loss: 7.
000861186484377, Valid Loss: 3211.3173294067383,
Accuracy: 0.35823429541595925, Time Taken: 45.95s,
Learning Rate: 0.005742999999999991 -> 0.
005736399999999991
689 Fold 3/5, Epoch 47/300, Train Loss: 13.
089460400324816, Valid Loss: 2989.7306594848633,
Accuracy: 0.35823429541595925, Time Taken: 46.43s,
Learning Rate: 0.005736399999999991 -> 0.
005729799999999915
690 Fold 3/5, Epoch 48/300, Train Loss: 7.
623265302521381, Valid Loss: 1861.2318229675293,
Accuracy: 0.35823429541595925, Time Taken: 47.20s,
Learning Rate: 0.0057297999999999915 -> 0.
005723199999999992
691 Fold 3/5, Epoch 49/300, Train Loss: 9.
076894277393448, Valid Loss: 779.0522937774658,

```
691 Accuracy: 0.35823429541595925, Time Taken: 47.50s,  
Learning Rate: 0.005723199999999992 -> 0.  
0057165999999999992  
692 Fold 3/5, Epoch 50/300, Train Loss: 8.  
273889235881894, Valid Loss: 24930.670135498047,  
Accuracy: 0.35823429541595925, Time Taken: 46.82s,  
Learning Rate: 0.005716599999999992 -> 0.  
0057099999999999992  
693 Fold 3/5, Epoch 51/300, Train Loss: 8.  
226833256868968, Valid Loss: 2331.1982078552246,  
Accuracy: 0.35823429541595925, Time Taken: 46.82s,  
Learning Rate: 0.00570999999999992 -> 0.  
0057033999999999992  
694 Fold 3/5, Epoch 52/300, Train Loss: 6.  
122568720662263, Valid Loss: 3098.424015045166,  
Accuracy: 0.35823429541595925, Time Taken: 46.24s,  
Learning Rate: 0.00570339999999992 -> 0.  
0056967999999999992  
695 Fold 3/5, Epoch 53/300, Train Loss: 10.  
92808735363275, Valid Loss: 4230.259784698486,  
Accuracy: 0.4601018675721562, Time Taken: 46.42s,  
Learning Rate: 0.00569679999999992 -> 0.  
0056901999999999925  
696 Fold 3/5, Epoch 54/300, Train Loss: 6.  
322508162763662, Valid Loss: 11127.161605834961,  
Accuracy: 0.35823429541595925, Time Taken: 46.32s,  
Learning Rate: 0.005690199999999925 -> 0.  
005683599999999993  
697 Fold 3/5, Epoch 55/300, Train Loss: 2.  
856406964396853, Valid Loss: 338.89248752593994,  
Accuracy: 0.5891341256366723, Time Taken: 46.70s,  
Learning Rate: 0.00568359999999993 -> 0.  
005676999999999993  
698 Fold 3/5, Epoch 56/300, Train Loss: 9.  
888961999155091, Valid Loss: 19377.25067138672,  
Accuracy: 0.2835314091680815, Time Taken: 47.01s,  
Learning Rate: 0.00567699999999993 -> 0.  
005670399999999993  
699 Fold 3/5, Epoch 57/300, Train Loss: 7.  
7568664020879625, Valid Loss: 13616.58609008789,  
Accuracy: 0.2835314091680815, Time Taken: 47.07s,
```

```
699 Learning Rate: 0.00567039999999993 -> 0.  
005663799999999993  
700 Fold 3/5, Epoch 58/300, Train Loss: 9.  
767647300364894, Valid Loss: 1075.8959579467773,  
Accuracy: 0.3616298811544992, Time Taken: 47.55s,  
Learning Rate: 0.00566379999999993 -> 0.  
005657199999999993  
701 Fold 3/5, Epoch 59/300, Train Loss: 11.  
093431478735319, Valid Loss: 8317.991668701172,  
Accuracy: 0.35823429541595925, Time Taken: 46.46s,  
Learning Rate: 0.00565719999999993 -> 0.  
005650599999999935  
702 Fold 3/5, Epoch 60/300, Train Loss: 11.  
56863920713939, Valid Loss: 922.2236490249634,  
Accuracy: 0.3633276740237691, Time Taken: 46.23s,  
Learning Rate: 0.005650599999999935 -> 0.  
00564399999999994  
703 Fold 3/5, Epoch 61/300, Train Loss: 7.26015898368615  
, Valid Loss: 10635.935302734375, Accuracy: 0.  
35823429541595925, Time Taken: 46.56s, Learning Rate  
: 0.00564399999999994 -> 0.00563739999999994  
704 Fold 3/5, Epoch 62/300, Train Loss: 5.  
419636987790484, Valid Loss: 7545.161605834961,  
Accuracy: 0.2835314091680815, Time Taken: 46.99s,  
Learning Rate: 0.00563739999999994 -> 0.  
00563079999999994  
705 Fold 3/5, Epoch 63/300, Train Loss: 6.  
667736621652662, Valid Loss: 9911.323593139648,  
Accuracy: 0.2835314091680815, Time Taken: 47.24s,  
Learning Rate: 0.00563079999999994 -> 0.  
00562419999999994  
706 Fold 3/5, Epoch 64/300, Train Loss: 7.  
694892399999853, Valid Loss: 3058.8160362243652,  
Accuracy: 0.6061120543293718, Time Taken: 47.50s,  
Learning Rate: 0.00562419999999994 -> 0.  
00561759999999994  
707 Fold 3/5, Epoch 65/300, Train Loss: 6.  
877254474782101, Valid Loss: 9765.483673095703,  
Accuracy: 0.35823429541595925, Time Taken: 47.84s,  
Learning Rate: 0.00561759999999994 -> 0.  
005610999999999945
```

708 Fold 3/5, Epoch 66/300, Train Loss: 10.
227387531516179, Valid Loss: 6771.704147338867,
Accuracy: 0.2835314091680815, Time Taken: 46.00s,
Learning Rate: 0.005610999999999945 -> 0.
005604399999999995

709 Fold 3/5, Epoch 67/300, Train Loss: 9.
479707430262064, Valid Loss: 7520.118698120117,
Accuracy: 0.2835314091680815, Time Taken: 45.96s,
Learning Rate: 0.00560439999999995 -> 0.
005597799999999995

710 Fold 3/5, Epoch 68/300, Train Loss: 7.
2937717564003695, Valid Loss: 1648.7029304504395,
Accuracy: 0.3904923599320883, Time Taken: 46.31s,
Learning Rate: 0.00559779999999995 -> 0.
005591199999999995

711 Fold 3/5, Epoch 69/300, Train Loss: 8.56295964419444
, Valid Loss: 2496.256732940674, Accuracy: 0.
35823429541595925, Time Taken: 47.49s, Learning Rate
: 0.00559119999999995 -> 0.005584599999999995

712 Fold 3/5, Epoch 70/300, Train Loss: 9.
109303752972966, Valid Loss: 11558.685150146484,
Accuracy: 0.35823429541595925, Time Taken: 47.39s,
Learning Rate: 0.00558459999999995 -> 0.
005577999999999995

713 Fold 3/5, Epoch 71/300, Train Loss: 8.
697562424616855, Valid Loss: 2538.655132293701,
Accuracy: 0.2835314091680815, Time Taken: 47.70s,
Learning Rate: 0.00557799999999995 -> 0.
005571399999999955

714 Fold 3/5, Epoch 72/300, Train Loss: 14.
952843387597213, Valid Loss: 9235.40805053711,
Accuracy: 0.35823429541595925, Time Taken: 47.82s,
Learning Rate: 0.005571399999999955 -> 0.
005564799999999996

715 Fold 3/5, Epoch 73/300, Train Loss: 7.
578055635909592, Valid Loss: 8763.591934204102,
Accuracy: 0.35823429541595925, Time Taken: 46.57s,
Learning Rate: 0.005564799999999996 -> 0.
005558199999999996

716 Fold 3/5, Epoch 74/300, Train Loss: 10.
74175361312155, Valid Loss: 32936.29815673828,

```
716 Accuracy: 0.2835314091680815, Time Taken: 46.72s,
    Learning Rate: 0.005558199999999996 -> 0.
    0055515999999999996
717 Fold 3/5, Epoch 75/300, Train Loss: 8.
    275457362190592, Valid Loss: 23888.749389648438,
    Accuracy: 0.35823429541595925, Time Taken: 46.55s,
    Learning Rate: 0.005551599999999996 -> 0.
    0055449999999999996
718 Fold 3/5, Epoch 76/300, Train Loss: 6.06223919889983
    , Valid Loss: 575.9334144592285, Accuracy: 0.
    28522920203735147, Time Taken: 46.92s, Learning Rate
    : 0.00554499999999996 -> 0.005538399999999996
719 Fold 3/5, Epoch 77/300, Train Loss: 7.
    6711706687792605, Valid Loss: 5545.679397583008,
    Accuracy: 0.2835314091680815, Time Taken: 47.71s,
    Learning Rate: 0.00553839999999996 -> 0.
    005531799999999964
720 Fold 3/5, Epoch 78/300, Train Loss: 5.
    895238394039868, Valid Loss: 3952.035934448242,
    Accuracy: 0.3599320882852292, Time Taken: 47.39s,
    Learning Rate: 0.005531799999999964 -> 0.
    005525199999999997
721 Fold 3/5, Epoch 79/300, Train Loss: 6.
    9415570739065515, Valid Loss: 1527.934009552002,
    Accuracy: 0.6196943972835314, Time Taken: 47.64s,
    Learning Rate: 0.00552519999999997 -> 0.
    005518599999999997
722 Fold 3/5, Epoch 80/300, Train Loss: 5.
    639608764109272, Valid Loss: 14177.333190917969,
    Accuracy: 0.3684210526315789, Time Taken: 46.46s,
    Learning Rate: 0.00551859999999997 -> 0.
    005511999999999997
723 Fold 3/5, Epoch 81/300, Train Loss: 7.
    4727950666577385, Valid Loss: 11036.186279296875,
    Accuracy: 0.35823429541595925, Time Taken: 46.17s,
    Learning Rate: 0.00551199999999997 -> 0.
    005505399999999997
724 Fold 3/5, Epoch 82/300, Train Loss: 11.
    438061386521492, Valid Loss: 1269.4865283966064,
    Accuracy: 0.35823429541595925, Time Taken: 46.16s,
    Learning Rate: 0.005505399999999997 -> 0.
```

724 005498799999999997
725 Fold 3/5, Epoch 83/300, Train Loss: 20.
535855426503808, Valid Loss: 11693.11196899414,
Accuracy: 0.35823429541595925, Time Taken: 46.70s,
Learning Rate: 0.005498799999999997 -> 0.
0054921999999999997
726 Fold 3/5, Epoch 84/300, Train Loss: 13.
397296576081482, Valid Loss: 46311.75894165039,
Accuracy: 0.35823429541595925, Time Taken: 47.57s,
Learning Rate: 0.005492199999999997 -> 0.
0054855999999999998
727 Fold 3/5, Epoch 85/300, Train Loss: 11.
866479149867967, Valid Loss: 21099.66488647461,
Accuracy: 0.35823429541595925, Time Taken: 47.45s,
Learning Rate: 0.005485599999999998 -> 0.
0054789999999999998
728 Fold 3/5, Epoch 86/300, Train Loss: 9.49659977147057
, Valid Loss: 2935.848342895508, Accuracy: 0.
28862478777589134, Time Taken: 47.63s, Learning Rate
: 0.005478999999999998 -> 0.005472399999999998
729 Fold 3/5, Epoch 87/300, Train Loss: 4.
143408555614638, Valid Loss: 13511.033020019531,
Accuracy: 0.35823429541595925, Time Taken: 46.52s,
Learning Rate: 0.005472399999999998 -> 0.
0054657999999999998
730 Fold 3/5, Epoch 88/300, Train Loss: 6.
667283040748913, Valid Loss: 11801.783813476562,
Accuracy: 0.35823429541595925, Time Taken: 46.81s,
Learning Rate: 0.005465799999999998 -> 0.
0054591999999999998
731 Fold 3/5, Epoch 89/300, Train Loss: 12.
531981969203795, Valid Loss: 4435.28450012207,
Accuracy: 0.2835314091680815, Time Taken: 46.32s,
Learning Rate: 0.005459199999999998 -> 0.
0054525999999999998
732 Fold 3/5, Epoch 90/300, Train Loss: 6.
371571272591179, Valid Loss: 11684.116424560547,
Accuracy: 0.35823429541595925, Time Taken: 47.22s,
Learning Rate: 0.005452599999999998 -> 0.
0054459999999999999
733 Fold 3/5, Epoch 91/300, Train Loss: 3.

733 689348476827936, Valid Loss: 3912.3047485351562,
Accuracy: 0.3599320882852292, Time Taken: 47.36s,
Learning Rate: 0.005445999999999999 -> 0.
005439399999999999
734 Fold 3/5, Epoch 92/300, Train Loss: 2.
062956629328493, Valid Loss: 50307.94616699219,
Accuracy: 0.35823429541595925, Time Taken: 47.44s,
Learning Rate: 0.005439399999999999 -> 0.
005432799999999999
735 Fold 3/5, Epoch 93/300, Train Loss: 5.
251777235644533, Valid Loss: 5198.194160461426,
Accuracy: 0.35823429541595925, Time Taken: 47.46s,
Learning Rate: 0.005432799999999999 -> 0.
005426199999999999
736 Fold 3/5, Epoch 94/300, Train Loss: 6.1940614466368
, Valid Loss: 8585.336242675781, Accuracy: 0.
35823429541595925, Time Taken: 47.13s, Learning Rate
: 0.005426199999999999 -> 0.005419599999999999
737 Fold 3/5, Epoch 95/300, Train Loss: 9.
406654008814467, Valid Loss: 1025.902732849121,
Accuracy: 0.3378607809847199, Time Taken: 46.26s,
Learning Rate: 0.005419599999999999 -> 0.
005412999999999999
738 Fold 3/5, Epoch 96/300, Train Loss: 8.
669018737009171, Valid Loss: 5419.711311340332,
Accuracy: 0.35823429541595925, Time Taken: 46.25s,
Learning Rate: 0.005412999999999999 -> 0.0054064
739 Fold 3/5, Epoch 97/300, Train Loss: 6.
233156120690405, Valid Loss: 3196.1572341918945,
Accuracy: 0.35823429541595925, Time Taken: 46.62s,
Learning Rate: 0.0054064 -> 0.0053998
740 Fold 3/5, Epoch 98/300, Train Loss: 10.
076762004287602, Valid Loss: 7529.383110046387,
Accuracy: 0.35823429541595925, Time Taken: 46.96s,
Learning Rate: 0.0053998 -> 0.0053932
741 Fold 3/5, Epoch 99/300, Train Loss: 10.
648522767393281, Valid Loss: 1722.2190551757812,
Accuracy: 0.2869269949066214, Time Taken: 47.55s,
Learning Rate: 0.0053932 -> 0.005386599999999999
742 Fold 3/5, Epoch 100/300, Train Loss: 3.
113199243693991, Valid Loss: 3845.5535278320312,

```
742 Accuracy: 0.35823429541595925, Time Taken: 47.10s,  
Learning Rate: 0.005386599999999999 -> 0.  
005379999999999999  
743 Fold 3/5, Epoch 101/300, Train Loss: 14.  
196193002632024, Valid Loss: 18805.422149658203,  
Accuracy: 0.35823429541595925, Time Taken: 47.16s,  
Learning Rate: 0.005379999999999999 -> 0.  
005373399999999999  
744 Fold 3/5, Epoch 102/300, Train Loss: 7.  
453355915068183, Valid Loss: 1315.3949604034424,  
Accuracy: 0.35823429541595925, Time Taken: 46.68s,  
Learning Rate: 0.005373399999999995 -> 0.0053668  
745 Fold 3/5, Epoch 103/300, Train Loss: 4.  
3323351213410985, Valid Loss: 12367.054473876953,  
Accuracy: 0.3735144312393888, Time Taken: 46.24s,  
Learning Rate: 0.0053668 -> 0.0053602  
746 Fold 3/5, Epoch 104/300, Train Loss: 8.  
537175612897135, Valid Loss: 4377.088035583496,  
Accuracy: 0.35823429541595925, Time Taken: 46.73s,  
Learning Rate: 0.0053602 -> 0.0053536  
747 Fold 3/5, Epoch 105/300, Train Loss: 9.  
659494252785269, Valid Loss: 2206.388298034668,  
Accuracy: 0.2835314091680815, Time Taken: 46.44s,  
Learning Rate: 0.0053536 -> 0.005347  
748 Fold 3/5, Epoch 106/300, Train Loss: 6.  
519702343454117, Valid Loss: 13203.127685546875,  
Accuracy: 0.35823429541595925, Time Taken: 47.20s,  
Learning Rate: 0.005347 -> 0.0053404  
749 Fold 3/5, Epoch 107/300, Train Loss: 4.  
515640111869199, Valid Loss: 10742.598159790039,  
Accuracy: 0.35823429541595925, Time Taken: 47.40s,  
Learning Rate: 0.0053404 -> 0.0053338000000000005  
750 Fold 3/5, Epoch 108/300, Train Loss: 6.  
942850805294672, Valid Loss: 22419.203491210938,  
Accuracy: 0.35823429541595925, Time Taken: 47.16s,  
Learning Rate: 0.0053338000000000005 -> 0.  
005327200000000001  
751 Fold 3/5, Epoch 109/300, Train Loss: 9.  
155199092449548, Valid Loss: 1387.9548263549805,  
Accuracy: 0.35823429541595925, Time Taken: 45.93s,  
Learning Rate: 0.005327200000000001 -> 0.
```

```
751 0053206000000000001
752 Fold 3/5, Epoch 110/300, Train Loss: 10.
    474994629544032, Valid Loss: 26205.60415649414,
    Accuracy: 0.2835314091680815, Time Taken: 45.87s,
    Learning Rate: 0.005320600000000001 -> 0.
    0053140000000000001
753 Fold 3/5, Epoch 111/300, Train Loss: 6.533357964878
    , Valid Loss: 22049.47412109375, Accuracy: 0.
    35823429541595925, Time Taken: 46.15s, Learning Rate
    : 0.005314000000000001 -> 0.0053074000000000001
754 Fold 3/5, Epoch 112/300, Train Loss: 6.
    977573186872423, Valid Loss: 6241.6802978515625,
    Accuracy: 0.35823429541595925, Time Taken: 46.66s,
    Learning Rate: 0.005307400000000001 -> 0.
    0053008000000000001
755 Fold 3/5, Epoch 113/300, Train Loss: 14.
    699498766666155, Valid Loss: 5783.412902832031,
    Accuracy: 0.35823429541595925, Time Taken: 47.02s,
    Learning Rate: 0.005300800000000001 -> 0.
    0052942000000000015
756 Fold 3/5, Epoch 114/300, Train Loss: 8.
    583288287927175, Valid Loss: 3792.723602294922,
    Accuracy: 0.2835314091680815, Time Taken: 47.62s,
    Learning Rate: 0.005294200000000015 -> 0.
    0052876000000000002
757 Fold 3/5, Epoch 115/300, Train Loss: 9.
    118712828616367, Valid Loss: 4449.694160461426,
    Accuracy: 0.2835314091680815, Time Taken: 47.29s,
    Learning Rate: 0.00528760000000002 -> 0.
    005281000000000001
758 Fold 3/5, Epoch 116/300, Train Loss: 5.
    709726896991452, Valid Loss: 3082.2692337036133,
    Accuracy: 0.29541595925297115, Time Taken: 46.78s,
    Learning Rate: 0.00528100000000001 -> 0.
    0052744000000000001
759 Fold 3/5, Epoch 117/300, Train Loss: 5.
    892940049615777, Valid Loss: 8504.508438110352,
    Accuracy: 0.35823429541595925, Time Taken: 46.60s,
    Learning Rate: 0.00527440000000001 -> 0.
    0052678000000000001
760 Fold 3/5, Epoch 118/300, Train Loss: 3.
```

760 9754161479342187, Valid Loss: 4961.874313354492,
Accuracy: 0.35823429541595925, Time Taken: 46.63s,
Learning Rate: 0.005267800000000001 -> 0.
0052612000000000015
761 Fold 3/5, Epoch 119/300, Train Loss: 6.
430608184266323, Valid Loss: 5467.439277648926,
Accuracy: 0.35823429541595925, Time Taken: 46.97s,
Learning Rate: 0.005261200000000015 -> 0.
0052546000000000002
762 Fold 3/5, Epoch 120/300, Train Loss: 8.
013648686200952, Valid Loss: 1660.2581939697266,
Accuracy: 0.2835314091680815, Time Taken: 48.03s,
Learning Rate: 0.005254600000000002 -> 0.
0052480000000000002
763 Fold 3/5, Epoch 121/300, Train Loss: 7.
833255733156964, Valid Loss: 18623.69805908203,
Accuracy: 0.2835314091680815, Time Taken: 47.87s,
Learning Rate: 0.005248000000000002 -> 0.
0052414000000000002
764 Fold 3/5, Epoch 122/300, Train Loss: 5.
818218984801205, Valid Loss: 46604.321044921875,
Accuracy: 0.35823429541595925, Time Taken: 47.95s,
Learning Rate: 0.005241400000000002 -> 0.
0052348000000000002
765 Fold 3/5, Epoch 123/300, Train Loss: 12.
778319253545959, Valid Loss: 7294.881484985352,
Accuracy: 0.2835314091680815, Time Taken: 48.38s,
Learning Rate: 0.005234800000000002 -> 0.
0052282000000000002
766 Fold 3/5, Epoch 124/300, Train Loss: 9.3248187366715
, Valid Loss: 7336.714080810547, Accuracy: 0.
35823429541595925, Time Taken: 48.06s, Learning Rate
: 0.005228200000000002 -> 0.005221600000000025
767 Fold 3/5, Epoch 125/300, Train Loss: 5.
847500373860284, Valid Loss: 14629.848937988281,
Accuracy: 0.35823429541595925, Time Taken: 47.84s,
Learning Rate: 0.005221600000000025 -> 0.
005215000000000003
768 Fold 3/5, Epoch 126/300, Train Loss: 9.
344129002970641, Valid Loss: 29149.162200927734,
Accuracy: 0.2835314091680815, Time Taken: 46.49s,

```
768 Learning Rate: 0.00521500000000003 -> 0.  
005208400000000003  
769 Fold 3/5, Epoch 127/300, Train Loss: 6.  
495359705708536, Valid Loss: 680.9927501678467,  
Accuracy: 0.3904923599320883, Time Taken: 47.35s,  
Learning Rate: 0.00520840000000003 -> 0.  
005201800000000003  
770 Fold 3/5, Epoch 128/300, Train Loss: 4.  
733158226125203, Valid Loss: 27109.752380371094,  
Accuracy: 0.35823429541595925, Time Taken: 47.69s,  
Learning Rate: 0.00520180000000003 -> 0.  
005195200000000003  
771 Fold 3/5, Epoch 129/300, Train Loss: 7.  
978788988486807, Valid Loss: 8606.023406982422,  
Accuracy: 0.35823429541595925, Time Taken: 47.60s,  
Learning Rate: 0.00519520000000003 -> 0.  
005188600000000003  
772 Fold 3/5, Epoch 130/300, Train Loss: 7.  
562721871446927, Valid Loss: 189.54041361808777,  
Accuracy: 0.4533106960950764, Time Taken: 46.67s,  
Learning Rate: 0.00518860000000003 -> 0.  
005182000000000034  
773 Fold 3/5, Epoch 131/300, Train Loss: 6.  
964397536657338, Valid Loss: 5454.066551208496,  
Accuracy: 0.35823429541595925, Time Taken: 46.10s,  
Learning Rate: 0.005182000000000034 -> 0.  
005175400000000004  
774 Fold 3/5, Epoch 132/300, Train Loss: 3.  
522535445423201, Valid Loss: 1463.9412021636963,  
Accuracy: 0.35823429541595925, Time Taken: 46.47s,  
Learning Rate: 0.00517540000000004 -> 0.  
005168800000000004  
775 Fold 3/5, Epoch 133/300, Train Loss: 6.  
43790400484571, Valid Loss: 16781.763305664062,  
Accuracy: 0.2835314091680815, Time Taken: 46.56s,  
Learning Rate: 0.00516880000000004 -> 0.  
005162200000000004  
776 Fold 3/5, Epoch 134/300, Train Loss: 12.  
189398719869379, Valid Loss: 26204.200256347656,  
Accuracy: 0.35823429541595925, Time Taken: 46.89s,  
Learning Rate: 0.00516220000000004 -> 0.
```

```
776 005155600000000004
777 Fold 3/5, Epoch 135/300, Train Loss: 10.
884983784142204, Valid Loss: 3841.2659454345703,
Accuracy: 0.2835314091680815, Time Taken: 47.55s,
Learning Rate: 0.005155600000000004 -> 0.
005149000000000004
778 Fold 3/5, Epoch 136/300, Train Loss: 11.
06131944803406, Valid Loss: 1449.2892742156982,
Accuracy: 0.400679117147708, Time Taken: 47.89s,
Learning Rate: 0.005149000000000004 -> 0.
005142400000000004
779 Fold 3/5, Epoch 137/300, Train Loss: 6.
710559186820735, Valid Loss: 5143.953514099121,
Accuracy: 0.35823429541595925, Time Taken: 46.78s,
Learning Rate: 0.005142400000000004 -> 0.
005135800000000005
780 Fold 3/5, Epoch 138/300, Train Loss: 5.
966926142320471, Valid Loss: 4985.108688354492,
Accuracy: 0.2835314091680815, Time Taken: 46.01s,
Learning Rate: 0.005135800000000005 -> 0.
005129200000000005
781 Fold 3/5, Epoch 139/300, Train Loss: 4.
477934466223739, Valid Loss: 18825.402404785156,
Accuracy: 0.35823429541595925, Time Taken: 46.12s,
Learning Rate: 0.005129200000000005 -> 0.
005122600000000005
782 Fold 3/5, Epoch 140/300, Train Loss: 9.
727984281544504, Valid Loss: 1034.1816844940186,
Accuracy: 0.35823429541595925, Time Taken: 46.83s,
Learning Rate: 0.005122600000000005 -> 0.
005116000000000005
783 Fold 3/5, Epoch 141/300, Train Loss: 4.
33273648879568, Valid Loss: 702.2524251937866,
Accuracy: 0.3735144312393888, Time Taken: 46.70s,
Learning Rate: 0.005116000000000005 -> 0.
005109400000000005
784 Fold 3/5, Epoch 142/300, Train Loss: 3.
8818006878585667, Valid Loss: 5359.041862487793,
Accuracy: 0.2835314091680815, Time Taken: 47.57s,
Learning Rate: 0.005109400000000005 -> 0.
005102800000000005
```

785 Fold 3/5, Epoch 143/300, Train Loss: 8.
385199847677503, Valid Loss: 2358.3607749938965,
Accuracy: 0.28522920203735147, Time Taken: 49.36s,
Learning Rate: 0.00510280000000005 -> 0.
005096200000000006

786 Fold 3/5, Epoch 144/300, Train Loss: 4.
803146134273855, Valid Loss: 1053.1263885498047,
Accuracy: 0.35823429541595925, Time Taken: 47.20s,
Learning Rate: 0.005096200000000006 -> 0.
005089600000000006

787 Fold 3/5, Epoch 145/300, Train Loss: 5.
759573234384953, Valid Loss: 24403.646850585938,
Accuracy: 0.35823429541595925, Time Taken: 46.37s,
Learning Rate: 0.005089600000000006 -> 0.
005083000000000006

788 Fold 3/5, Epoch 146/300, Train Loss: 9.
154494000721483, Valid Loss: 6101.801864624023,
Accuracy: 0.35823429541595925, Time Taken: 46.48s,
Learning Rate: 0.005083000000000006 -> 0.
005076400000000006

789 Fold 3/5, Epoch 147/300, Train Loss: 6.
615745993419673, Valid Loss: 7985.744049072266,
Accuracy: 0.35823429541595925, Time Taken: 46.70s,
Learning Rate: 0.005076400000000006 -> 0.
005069800000000006

790 Fold 3/5, Epoch 148/300, Train Loss: 9.
17194109804353, Valid Loss: 4147.068519592285,
Accuracy: 0.35823429541595925, Time Taken: 47.05s,
Learning Rate: 0.005069800000000006 -> 0.
005063200000000006

791 Fold 3/5, Epoch 149/300, Train Loss: 8.
13613926925239, Valid Loss: 1791.7281761169434,
Accuracy: 0.2835314091680815, Time Taken: 47.42s,
Learning Rate: 0.005063200000000006 -> 0.
005056600000000007

792 Fold 3/5, Epoch 150/300, Train Loss: 4.
758303331821509, Valid Loss: 30832.967529296875,
Accuracy: 0.35823429541595925, Time Taken: 47.27s,
Learning Rate: 0.005056600000000007 -> 0.
005050000000000007

793 Fold 3/5, Epoch 151/300, Train Loss: 6.

```
793 921021602463565, Valid Loss: 648.7914514541626,  
Accuracy: 0.3616298811544992, Time Taken: 47.35s,  
Learning Rate: 0.005050000000000007 -> 0.  
005043400000000007  
794 Fold 3/5, Epoch 152/300, Train Loss: 5.  
898219843345844, Valid Loss: 2892.8475189208984,  
Accuracy: 0.28522920203735147, Time Taken: 46.05s,  
Learning Rate: 0.005043400000000007 -> 0.  
005036800000000007  
795 Fold 3/5, Epoch 153/300, Train Loss: 16.  
764123505895085, Valid Loss: 8681.616073608398,  
Accuracy: 0.35823429541595925, Time Taken: 46.58s,  
Learning Rate: 0.005036800000000007 -> 0.  
005030200000000007  
796 Fold 3/5, Epoch 154/300, Train Loss: 9.  
137412659630773, Valid Loss: 23154.075958251953,  
Accuracy: 0.35823429541595925, Time Taken: 46.72s,  
Learning Rate: 0.005030200000000007 -> 0.  
005023600000000007  
797 Fold 3/5, Epoch 155/300, Train Loss: 6.  
103717455957688, Valid Loss: 9286.889221191406,  
Accuracy: 0.35823429541595925, Time Taken: 46.75s,  
Learning Rate: 0.005023600000000007 -> 0.  
005017000000000076  
798 Fold 3/5, Epoch 156/300, Train Loss: 6.  
397124166912454, Valid Loss: 7693.275100708008,  
Accuracy: 0.35823429541595925, Time Taken: 47.04s,  
Learning Rate: 0.005017000000000076 -> 0.  
005010400000000008  
799 Fold 3/5, Epoch 157/300, Train Loss: 13.  
084131766764113, Valid Loss: 607.2371854782104,  
Accuracy: 0.37860780984719866, Time Taken: 47.18s,  
Learning Rate: 0.005010400000000008 -> 0.  
005003800000000008  
800 Fold 3/5, Epoch 158/300, Train Loss: 6.  
916485317842749, Valid Loss: 14378.080627441406,  
Accuracy: 0.35823429541595925, Time Taken: 47.13s,  
Learning Rate: 0.005003800000000008 -> 0.  
004997200000000008  
801 Fold 3/5, Epoch 159/300, Train Loss: 3.  
9406634108104113, Valid Loss: 15682.973571777344,
```

```
801 Accuracy: 0.35823429541595925, Time Taken: 46.74s,  
Learning Rate: 0.004997200000000008 -> 0.  
004990600000000007  
802 Fold 3/5, Epoch 160/300, Train Loss: 9.  
307309628201388, Valid Loss: 27867.63104248047,  
Accuracy: 0.35823429541595925, Time Taken: 47.05s,  
Learning Rate: 0.004990600000000007 -> 0.  
0049840000000000075  
803 Fold 3/5, Epoch 161/300, Train Loss: 3.  
7593312656387257, Valid Loss: 6045.213638305664,  
Accuracy: 0.35823429541595925, Time Taken: 46.48s,  
Learning Rate: 0.0049840000000000075 -> 0.  
004977400000000008  
804 Fold 3/5, Epoch 162/300, Train Loss: 6.  
027979866316341, Valid Loss: 6247.004783630371,  
Accuracy: 0.35823429541595925, Time Taken: 46.92s,  
Learning Rate: 0.004977400000000008 -> 0.  
004970800000000008  
805 Fold 3/5, Epoch 163/300, Train Loss: 3.  
850963117934664, Valid Loss: 1368.4200286865234,  
Accuracy: 0.35823429541595925, Time Taken: 46.94s,  
Learning Rate: 0.004970800000000008 -> 0.  
004964200000000008  
806 Fold 3/5, Epoch 164/300, Train Loss: 8.  
068238373506667, Valid Loss: 5550.7087478637695,  
Accuracy: 0.35823429541595925, Time Taken: 47.43s,  
Learning Rate: 0.004964200000000008 -> 0.  
004957600000000008  
807 Fold 3/5, Epoch 165/300, Train Loss: 2.  
5822276506081776, Valid Loss: 2162.9184188842773,  
Accuracy: 0.2835314091680815, Time Taken: 47.14s,  
Learning Rate: 0.004957600000000008 -> 0.  
004951000000000008  
808 Fold 3/5, Epoch 166/300, Train Loss: 5.  
468259633116125, Valid Loss: 3953.891700744629,  
Accuracy: 0.28522920203735147, Time Taken: 47.32s,  
Learning Rate: 0.004951000000000008 -> 0.  
0049444000000000085  
809 Fold 3/5, Epoch 167/300, Train Loss: 7.  
483922890463023, Valid Loss: 8788.085556030273,  
Accuracy: 0.2835314091680815, Time Taken: 46.47s,
```

```
809 Learning Rate: 0.004944400000000085 -> 0.  
004937800000000009  
810 Fold 3/5, Epoch 168/300, Train Loss: 1.  
9997052265781177, Valid Loss: 5054.489677429199,  
Accuracy: 0.35823429541595925, Time Taken: 46.63s,  
Learning Rate: 0.004937800000000009 -> 0.  
004931200000000009  
811 Fold 3/5, Epoch 169/300, Train Loss: 8.  
045337416431032, Valid Loss: 4263.514503479004,  
Accuracy: 0.5602716468590832, Time Taken: 46.62s,  
Learning Rate: 0.004931200000000009 -> 0.  
004924600000000009  
812 Fold 3/5, Epoch 170/300, Train Loss: 3.  
8577512524154356, Valid Loss: 5998.893127441406,  
Accuracy: 0.2835314091680815, Time Taken: 46.89s,  
Learning Rate: 0.004924600000000009 -> 0.  
004918000000000009  
813 Fold 3/5, Epoch 171/300, Train Loss: 6.  
840519735198569, Valid Loss: 424.4278440475464,  
Accuracy: 0.37181663837011886, Time Taken: 47.56s,  
Learning Rate: 0.004918000000000009 -> 0.  
004911400000000009  
814 Fold 3/5, Epoch 172/300, Train Loss: 6.  
6243837679258855, Valid Loss: 1460.0321731567383,  
Accuracy: 0.2835314091680815, Time Taken: 47.63s,  
Learning Rate: 0.004911400000000009 -> 0.  
0049048000000000095  
815 Fold 3/5, Epoch 173/300, Train Loss: 10.  
209981599939013, Valid Loss: 2892.4730529785156,  
Accuracy: 0.35823429541595925, Time Taken: 46.87s,  
Learning Rate: 0.004904800000000095 -> 0.  
00489820000000001  
816 Fold 3/5, Epoch 174/300, Train Loss: 9.  
71742707403033, Valid Loss: 11816.403228759766,  
Accuracy: 0.2835314091680815, Time Taken: 45.88s,  
Learning Rate: 0.00489820000000001 -> 0.  
00489160000000001  
817 Fold 3/5, Epoch 175/300, Train Loss: 8.  
593956798458278, Valid Loss: 9872.684799194336,  
Accuracy: 0.35823429541595925, Time Taken: 46.53s,  
Learning Rate: 0.00489160000000001 -> 0.
```

```
817 00488500000000001
818 Fold 3/5, Epoch 176/300, Train Loss: 8.
    697771470361445, Valid Loss: 44052.883850097656,
    Accuracy: 0.35823429541595925, Time Taken: 46.75s,
    Learning Rate: 0.00488500000000001 -> 0.
    00487840000000001
819 Fold 3/5, Epoch 177/300, Train Loss: 11.
    442106420727075, Valid Loss: 5652.491928100586,
    Accuracy: 0.35823429541595925, Time Taken: 46.69s,
    Learning Rate: 0.00487840000000001 -> 0.
    00487180000000001
820 Fold 3/5, Epoch 178/300, Train Loss: 7.
    880158701595013, Valid Loss: 13583.156829833984,
    Accuracy: 0.35823429541595925, Time Taken: 47.45s,
    Learning Rate: 0.00487180000000001 -> 0.
    0048652000000000105
821 Fold 3/5, Epoch 179/300, Train Loss: 4.
    759723347460657, Valid Loss: 7917.4888916015625,
    Accuracy: 0.35823429541595925, Time Taken: 47.18s,
    Learning Rate: 0.0048652000000000105 -> 0.
    004858600000000011
822 Fold 3/5, Epoch 180/300, Train Loss: 6.
    213064476819637, Valid Loss: 583.758303642273,
    Accuracy: 0.4363327674023769, Time Taken: 46.65s,
    Learning Rate: 0.004858600000000011 -> 0.
    004852000000000011
823 Fold 3/5, Epoch 181/300, Train Loss: 7.
    476829181281441, Valid Loss: 495.067195892334,
    Accuracy: 0.4142614601018676, Time Taken: 46.19s,
    Learning Rate: 0.004852000000000011 -> 0.
    004845400000000011
824 Fold 3/5, Epoch 182/300, Train Loss: 7.
    48242251172967, Valid Loss: 9885.313003540039,
    Accuracy: 0.35823429541595925, Time Taken: 46.23s,
    Learning Rate: 0.004845400000000011 -> 0.
    004838800000000011
825 Fold 3/5, Epoch 183/300, Train Loss: 4.
    290702776213552, Valid Loss: 8834.209716796875,
    Accuracy: 0.35823429541595925, Time Taken: 46.86s,
    Learning Rate: 0.004838800000000011 -> 0.
    004832200000000011
```

826 Fold 3/5, Epoch 184/300, Train Loss: 5.
92002848581312, Valid Loss: 1313.9263725280762,
Accuracy: 0.37521222410865873, Time Taken: 46.73s,
Learning Rate: 0.00483220000000011 -> 0.
0048256000000000115

827 Fold 3/5, Epoch 185/300, Train Loss: 7.415769787491
, Valid Loss: 6085.133262634277, Accuracy: 0.
38030560271646857, Time Taken: 47.44s, Learning Rate
: 0.0048256000000000115 -> 0.004819000000000012

828 Fold 3/5, Epoch 186/300, Train Loss: 7.
314357945909797, Valid Loss: 3381.532112121582,
Accuracy: 0.48217317487266553, Time Taken: 47.09s,
Learning Rate: 0.00481900000000012 -> 0.
004812400000000012

829 Fold 3/5, Epoch 187/300, Train Loss: 4.
177612450526923, Valid Loss: 3786.473419189453,
Accuracy: 0.35823429541595925, Time Taken: 47.61s,
Learning Rate: 0.00481240000000012 -> 0.
004805800000000012

830 Fold 3/5, Epoch 188/300, Train Loss: 11.
61907558144255, Valid Loss: 722.9975128173828,
Accuracy: 0.37860780984719866, Time Taken: 46.61s,
Learning Rate: 0.00480580000000012 -> 0.
004799200000000012

831 Fold 3/5, Epoch 189/300, Train Loss: 8.
62633082280181, Valid Loss: 41089.514099121094,
Accuracy: 0.35823429541595925, Time Taken: 46.47s,
Learning Rate: 0.004799200000000012 -> 0.
004792600000000012

832 Fold 3/5, Epoch 190/300, Train Loss: 9.1533307124791
, Valid Loss: 7851.078994750977, Accuracy: 0.
300509337860781, Time Taken: 46.33s, Learning Rate:
0.004792600000000012 -> 0.0047860000000000125

833 Fold 3/5, Epoch 191/300, Train Loss: 12.
390332470742763, Valid Loss: 4714.489013671875,
Accuracy: 0.35823429541595925, Time Taken: 46.94s,
Learning Rate: 0.0047860000000000125 -> 0.
004779400000000013

834 Fold 3/5, Epoch 192/300, Train Loss: 4.
805153724493843, Valid Loss: 1793.7833938598633,
Accuracy: 0.2835314091680815, Time Taken: 47.64s,

```
834 Learning Rate: 0.004779400000000013 -> 0.  
004772800000000013  
835 Fold 3/5, Epoch 193/300, Train Loss: 6.  
862966687302805, Valid Loss: 7284.393157958984,  
Accuracy: 0.3599320882852292, Time Taken: 47.16s,  
Learning Rate: 0.004772800000000013 -> 0.  
004766200000000013  
836 Fold 3/5, Epoch 194/300, Train Loss: 1.  
8503834935411945, Valid Loss: 1063.6136207580566,  
Accuracy: 0.2937181663837012, Time Taken: 47.61s,  
Learning Rate: 0.004766200000000013 -> 0.  
004759600000000012  
837 Fold 3/5, Epoch 195/300, Train Loss: 5.  
9989604323928285, Valid Loss: 2956.071090698242,  
Accuracy: 0.35823429541595925, Time Taken: 46.17s,  
Learning Rate: 0.004759600000000012 -> 0.  
004753000000000012  
838 Fold 3/5, Epoch 196/300, Train Loss: 4.  
192288942824806, Valid Loss: 1638.6074085235596,  
Accuracy: 0.3837011884550085, Time Taken: 46.48s,  
Learning Rate: 0.004753000000000012 -> 0.  
004746400000000013  
839 Fold 3/5, Epoch 197/300, Train Loss: 6.  
123879230870427, Valid Loss: 1207.693561553955,  
Accuracy: 0.4634974533106961, Time Taken: 46.75s,  
Learning Rate: 0.004746400000000013 -> 0.  
004739800000000013  
840 Fold 3/5, Epoch 198/300, Train Loss: 6.  
452799897459514, Valid Loss: 14988.46517944336,  
Accuracy: 0.35823429541595925, Time Taken: 47.05s,  
Learning Rate: 0.004739800000000013 -> 0.  
004733200000000013  
841 Fold 3/5, Epoch 199/300, Train Loss: 7.  
259195653547398, Valid Loss: 21066.212005615234,  
Accuracy: 0.35823429541595925, Time Taken: 47.60s,  
Learning Rate: 0.004733200000000013 -> 0.  
004726600000000013  
842 Fold 3/5, Epoch 200/300, Train Loss: 5.  
895675209315865, Valid Loss: 7604.376724243164,  
Accuracy: 0.35823429541595925, Time Taken: 47.96s,  
Learning Rate: 0.004726600000000013 -> 0.
```

```
842 004720000000000013
843 Fold 3/5, Epoch 201/300, Train Loss: 6.
    010668728957409, Valid Loss: 14625.996307373047,
    Accuracy: 0.2835314091680815, Time Taken: 47.68s,
    Learning Rate: 0.004720000000000013 -> 0.
    004713400000000013
844 Fold 3/5, Epoch 202/300, Train Loss: 4.
    691644022325939, Valid Loss: 74.0232971906662,
    Accuracy: 0.6485568760611206, Time Taken: 46.73s,
    Learning Rate: 0.004713400000000013 -> 0.
    004706800000000014
845 Fold 3/5, Epoch 203/300, Train Loss: 7.
    657957339452069, Valid Loss: 12796.891082763672,
    Accuracy: 0.35823429541595925, Time Taken: 46.63s,
    Learning Rate: 0.004706800000000014 -> 0.
    004700200000000014
846 Fold 3/5, Epoch 204/300, Train Loss: 10.
    204352363977508, Valid Loss: 9078.39486694336,
    Accuracy: 0.35823429541595925, Time Taken: 46.76s,
    Learning Rate: 0.004700200000000014 -> 0.
    004693600000000014
847 Fold 3/5, Epoch 205/300, Train Loss: 4.
    995625754946108, Valid Loss: 7404.292221069336,
    Accuracy: 0.2835314091680815, Time Taken: 47.64s,
    Learning Rate: 0.004693600000000014 -> 0.
    004687000000000014
848 Fold 3/5, Epoch 206/300, Train Loss: 8.
    437957194915997, Valid Loss: 2003.9594116210938,
    Accuracy: 0.35823429541595925, Time Taken: 47.45s,
    Learning Rate: 0.004687000000000014 -> 0.
    004680400000000014
849 Fold 3/5, Epoch 207/300, Train Loss: 9.
    416409815086364, Valid Loss: 2851.919120788574,
    Accuracy: 0.2767402376910017, Time Taken: 47.19s,
    Learning Rate: 0.004680400000000014 -> 0.
    004673800000000014
850 Fold 3/5, Epoch 208/300, Train Loss: 9.
    717559236558296, Valid Loss: 50112.27685546875,
    Accuracy: 0.2835314091680815, Time Taken: 47.20s,
    Learning Rate: 0.004673800000000014 -> 0.
    0046672000000000146
```

```
851 Fold 3/5, Epoch 209/300, Train Loss: 5.  
514851611996534, Valid Loss: 10489.069061279297,  
Accuracy: 0.35823429541595925, Time Taken: 46.28s,  
Learning Rate: 0.004667200000000146 -> 0.  
004660600000000015  
852 Fold 3/5, Epoch 210/300, Train Loss: 5.  
125587018036306, Valid Loss: 15075.432662963867,  
Accuracy: 0.2835314091680815, Time Taken: 46.45s,  
Learning Rate: 0.004660600000000015 -> 0.  
004654000000000015  
853 Fold 3/5, Epoch 211/300, Train Loss: 2.  
132154083578807, Valid Loss: 3122.1078186035156,  
Accuracy: 0.35823429541595925, Time Taken: 46.10s,  
Learning Rate: 0.004654000000000015 -> 0.  
004647400000000015  
854 Fold 3/5, Epoch 212/300, Train Loss: 5.  
640221376529053, Valid Loss: 2787.3720169067383,  
Accuracy: 0.35823429541595925, Time Taken: 47.01s,  
Learning Rate: 0.004647400000000015 -> 0.  
004640800000000015  
855 Fold 3/5, Epoch 213/300, Train Loss: 6.  
866127127167289, Valid Loss: 10583.070816040039,  
Accuracy: 0.2835314091680815, Time Taken: 47.32s,  
Learning Rate: 0.004640800000000015 -> 0.  
004634200000000015  
856 Fold 3/5, Epoch 214/300, Train Loss: 5.  
432509730973404, Valid Loss: 12745.376541137695,  
Accuracy: 0.35823429541595925, Time Taken: 47.55s,  
Learning Rate: 0.004634200000000015 -> 0.  
0046276000000000156  
857 Fold 3/5, Epoch 215/300, Train Loss: 5.  
55075831960954, Valid Loss: 24254.30728149414,  
Accuracy: 0.35823429541595925, Time Taken: 47.08s,  
Learning Rate: 0.0046276000000000156 -> 0.  
004621000000000016  
858 Fold 3/5, Epoch 216/300, Train Loss: 12.  
253365292914564, Valid Loss: 1115.1650676727295,  
Accuracy: 0.3616298811544992, Time Taken: 46.76s,  
Learning Rate: 0.004621000000000016 -> 0.  
004614400000000016  
859 Fold 3/5, Epoch 217/300, Train Loss: 7.
```

```
859 300501844057648, Valid Loss: 24530.183471679688,  
Accuracy: 0.2835314091680815, Time Taken: 46.69s,  
Learning Rate: 0.004614400000000016 -> 0.  
004607800000000016  
860 Fold 3/5, Epoch 218/300, Train Loss: 11.  
153802524689175, Valid Loss: 11677.698120117188,  
Accuracy: 0.35823429541595925, Time Taken: 45.98s,  
Learning Rate: 0.004607800000000016 -> 0.  
004601200000000016  
861 Fold 3/5, Epoch 219/300, Train Loss: 4.  
048199796722513, Valid Loss: 2960.7095642089844,  
Accuracy: 0.2835314091680815, Time Taken: 46.47s,  
Learning Rate: 0.004601200000000016 -> 0.  
004594600000000016  
862 Fold 3/5, Epoch 220/300, Train Loss: 3.  
795259270739896, Valid Loss: 1095.1338291168213,  
Accuracy: 0.38879456706281834, Time Taken: 47.20s,  
Learning Rate: 0.004594600000000016 -> 0.  
0045880000000000165  
863 Fold 3/5, Epoch 221/300, Train Loss: 6.  
502018764629773, Valid Loss: 7253.977111816406,  
Accuracy: 0.35823429541595925, Time Taken: 47.66s,  
Learning Rate: 0.0045880000000000165 -> 0.  
004581400000000017  
864 Fold 3/5, Epoch 222/300, Train Loss: 9.  
378525465936292, Valid Loss: 19774.097412109375,  
Accuracy: 0.35823429541595925, Time Taken: 47.37s,  
Learning Rate: 0.004581400000000017 -> 0.  
004574800000000017  
865 Fold 3/5, Epoch 223/300, Train Loss: 2.  
17445344951041, Valid Loss: 8333.86833190918,  
Accuracy: 0.35823429541595925, Time Taken: 47.10s,  
Learning Rate: 0.004574800000000017 -> 0.  
004568200000000017  
866 Fold 3/5, Epoch 224/300, Train Loss: 5.  
229086806255517, Valid Loss: 2546.5843963623047,  
Accuracy: 0.2835314091680815, Time Taken: 46.45s,  
Learning Rate: 0.004568200000000017 -> 0.  
004561600000000017  
867 Fold 3/5, Epoch 225/300, Train Loss: 4.  
683336383022102, Valid Loss: 805.7758131027222,
```

867 Accuracy: 0.3599320882852292, Time Taken: 46.59s,
Learning Rate: 0.004561600000000017 -> 0.
004555000000000017

868 Fold 3/5, Epoch 226/300, Train Loss: 3.
6186722649376755, Valid Loss: 3777.432258605957,
Accuracy: 0.35823429541595925, Time Taken: 46.75s,
Learning Rate: 0.004555000000000017 -> 0.
0045484000000000175

869 Fold 3/5, Epoch 227/300, Train Loss: 5.
110808875272188, Valid Loss: 6266.809494018555,
Accuracy: 0.3633276740237691, Time Taken: 47.62s,
Learning Rate: 0.0045484000000000175 -> 0.
004541800000000018

870 Fold 3/5, Epoch 228/300, Train Loss: 10.
414841527955565, Valid Loss: 3622.8638458251953,
Accuracy: 0.35823429541595925, Time Taken: 47.45s,
Learning Rate: 0.004541800000000018 -> 0.
004535200000000018

871 Fold 3/5, Epoch 229/300, Train Loss: 4.
147637592442446, Valid Loss: 102.22220022976398,
Accuracy: 0.7640067911714771, Time Taken: 47.14s,
Learning Rate: 0.004535200000000018 -> 0.
004528600000000018

872 Fold 3/5, Epoch 230/300, Train Loss: 4.
302035888938049, Valid Loss: 985.7763748168945,
Accuracy: 0.4940577249575552, Time Taken: 47.57s,
Learning Rate: 0.004528600000000018 -> 0.
004522000000000018

873 Fold 3/5, Epoch 231/300, Train Loss: 5.
5389877406368395, Valid Loss: 2613.4033432006836,
Accuracy: 0.38200339558573854, Time Taken: 46.64s,
Learning Rate: 0.004522000000000018 -> 0.
004515400000000018

874 Fold 3/5, Epoch 232/300, Train Loss: 5.
145984776971757, Valid Loss: 2854.256259918213,
Accuracy: 0.3599320882852292, Time Taken: 46.14s,
Learning Rate: 0.004515400000000018 -> 0.
0045088000000000185

875 Fold 3/5, Epoch 233/300, Train Loss: 5.
313351555437973, Valid Loss: 496.29228591918945,
Accuracy: 0.31069609507640067, Time Taken: 46.70s,

875 Learning Rate: 0.0045088000000000185 -> 0.
004502200000000019

876 Fold 3/5, Epoch 234/300, Train Loss: 5.
61579448541667, Valid Loss: 7695.951171875, Accuracy
: 0.5874363327674024, Time Taken: 47.13s, Learning
Rate: 0.004502200000000019 -> 0.004495600000000019

877 Fold 3/5, Epoch 235/300, Train Loss: 5.
931324653262194, Valid Loss: 17774.873596191406,
Accuracy: 0.35823429541595925, Time Taken: 46.95s,
Learning Rate: 0.004495600000000019 -> 0.
004489000000000019

878 Fold 3/5, Epoch 236/300, Train Loss: 8.
348511952877624, Valid Loss: 4057.75968170166,
Accuracy: 0.35823429541595925, Time Taken: 47.41s,
Learning Rate: 0.004489000000000019 -> 0.
004482400000000019

879 Fold 3/5, Epoch 237/300, Train Loss: 6.
923941718307445, Valid Loss: 10187.35124206543,
Accuracy: 0.35823429541595925, Time Taken: 47.21s,
Learning Rate: 0.004482400000000019 -> 0.
004475800000000019

880 Fold 3/5, Epoch 238/300, Train Loss: 3.
905812063888213, Valid Loss: 5321.044891357422,
Accuracy: 0.35823429541595925, Time Taken: 45.84s,
Learning Rate: 0.004475800000000019 -> 0.
0044692000000000195

881 Fold 3/5, Epoch 239/300, Train Loss: 6.
246336767758309, Valid Loss: 6318.580177307129,
Accuracy: 0.35823429541595925, Time Taken: 46.26s,
Learning Rate: 0.0044692000000000195 -> 0.
00446260000000002

882 Fold 3/5, Epoch 240/300, Train Loss: 7.
695316464922778, Valid Loss: 4407.89599609375,
Accuracy: 0.35823429541595925, Time Taken: 46.66s,
Learning Rate: 0.00446260000000002 -> 0.
00445600000000002

883 Fold 3/5, Epoch 241/300, Train Loss: 9.
098586417426871, Valid Loss: 746.7739162445068,
Accuracy: 0.4244482173174873, Time Taken: 46.60s,
Learning Rate: 0.00445600000000002 -> 0.
00444940000000002

884 Fold 3/5, Epoch 242/300, Train Loss: 5.
207012873349477, Valid Loss: 6031.338638305664,
Accuracy: 0.3684210526315789, Time Taken: 46.93s,
Learning Rate: 0.0044494000000002 -> 0.
0044428000000002

885 Fold 3/5, Epoch 243/300, Train Loss: 6.
21004743127077, Valid Loss: 1498.8363513946533,
Accuracy: 0.38200339558573854, Time Taken: 47.74s,
Learning Rate: 0.0044428000000002 -> 0.
0044362000000002

886 Fold 3/5, Epoch 244/300, Train Loss: 6.
726381476344608, Valid Loss: 161.47916889190674,
Accuracy: 0.631578947368421, Time Taken: 47.63s,
Learning Rate: 0.0044362000000002 -> 0.
004429600000000205

887 Fold 3/5, Epoch 245/300, Train Loss: 4.
140236952347126, Valid Loss: 2005.4291534423828,
Accuracy: 0.3616298811544992, Time Taken: 46.56s,
Learning Rate: 0.004429600000000205 -> 0.
00442300000000021

888 Fold 3/5, Epoch 246/300, Train Loss: 5.
859335005105288, Valid Loss: 9118.61198425293,
Accuracy: 0.35823429541595925, Time Taken: 46.44s,
Learning Rate: 0.00442300000000021 -> 0.
00441640000000021

889 Fold 3/5, Epoch 247/300, Train Loss: 7.
666631537202954, Valid Loss: 1076.9142665863037,
Accuracy: 0.3599320882852292, Time Taken: 45.99s,
Learning Rate: 0.00441640000000021 -> 0.
00440980000000021

890 Fold 3/5, Epoch 248/300, Train Loss: 3.
705973983549282, Valid Loss: 5027.362716674805,
Accuracy: 0.35823429541595925, Time Taken: 46.56s,
Learning Rate: 0.00440980000000021 -> 0.
00440320000000021

891 Fold 3/5, Epoch 249/300, Train Loss: 8.
845856465315043, Valid Loss: 9303.068832397461,
Accuracy: 0.35823429541595925, Time Taken: 47.37s,
Learning Rate: 0.00440320000000021 -> 0.
00439660000000021

892 Fold 3/5, Epoch 250/300, Train Loss: 2.

```
892 961607091211264, Valid Loss: 8573.29280090332,  
Accuracy: 0.35823429541595925, Time Taken: 47.57s,  
Learning Rate: 0.004396600000000021 -> 0.  
0043900000000000215  
893 Fold 3/5, Epoch 251/300, Train Loss: 3.  
558271485085399, Valid Loss: 365.6238765716553,  
Accuracy: 0.43463497453310695, Time Taken: 47.55s,  
Learning Rate: 0.0043900000000000215 -> 0.  
0043834000000000022  
894 Fold 3/5, Epoch 252/300, Train Loss: 1.  
8257942554013376, Valid Loss: 4616.494827270508,  
Accuracy: 0.35823429541595925, Time Taken: 46.96s,  
Learning Rate: 0.004383400000000022 -> 0.  
004376800000000022  
895 Fold 3/5, Epoch 253/300, Train Loss: 8.  
808848051580348, Valid Loss: 9067.941024780273,  
Accuracy: 0.35823429541595925, Time Taken: 46.42s,  
Learning Rate: 0.004376800000000022 -> 0.  
004370200000000022  
896 Fold 3/5, Epoch 254/300, Train Loss: 5.  
251711213372761, Valid Loss: 663.3582029342651,  
Accuracy: 0.3904923599320883, Time Taken: 47.28s,  
Learning Rate: 0.004370200000000022 -> 0.  
004363600000000022  
897 Fold 3/5, Epoch 255/300, Train Loss: 6.  
385023710685978, Valid Loss: 16291.989624023438,  
Accuracy: 0.2835314091680815, Time Taken: 46.63s,  
Learning Rate: 0.004363600000000022 -> 0.  
004357000000000022  
898 Fold 3/5, Epoch 256/300, Train Loss: 3.  
4407191426910453, Valid Loss: 8541.364532470703,  
Accuracy: 0.2835314091680815, Time Taken: 46.94s,  
Learning Rate: 0.004357000000000022 -> 0.  
0043504000000000225  
899 Fold 3/5, Epoch 257/300, Train Loss: 3.  
5688262747135546, Valid Loss: 23145.610717773438,  
Accuracy: 0.35823429541595925, Time Taken: 47.05s,  
Learning Rate: 0.0043504000000000225 -> 0.  
004343800000000023  
900 Fold 3/5, Epoch 258/300, Train Loss: 6.  
209299138718736, Valid Loss: 371.0539107322693,
```

```
900 Accuracy: 0.3361629881154499, Time Taken: 47.42s,
Learning Rate: 0.004343800000000023 -> 0.
004337200000000023
901 Fold 3/5, Epoch 259/300, Train Loss: 6.
279238009510732, Valid Loss: 4847.824333190918,
Accuracy: 0.35823429541595925, Time Taken: 47.10s,
Learning Rate: 0.004337200000000023 -> 0.
004330600000000023
902 Fold 3/5, Epoch 260/300, Train Loss: 6.
80331702224993, Valid Loss: 365.56919527053833,
Accuracy: 0.39558573853989815, Time Taken: 45.92s,
Learning Rate: 0.004330600000000023 -> 0.
004324000000000023
903 Fold 3/5, Epoch 261/300, Train Loss: 8.
100244936498664, Valid Loss: 3526.8056640625,
Accuracy: 0.35823429541595925, Time Taken: 46.41s,
Learning Rate: 0.004324000000000023 -> 0.
004317400000000023
904 Fold 3/5, Epoch 262/300, Train Loss: 3.
1992161520294813, Valid Loss: 4320.276527404785,
Accuracy: 0.31069609507640067, Time Taken: 46.66s,
Learning Rate: 0.004317400000000023 -> 0.
0043108000000000235
905 Fold 3/5, Epoch 263/300, Train Loss: 3.
197484771726038, Valid Loss: 6195.868225097656,
Accuracy: 0.2835314091680815, Time Taken: 46.75s,
Learning Rate: 0.0043108000000000235 -> 0.
004304200000000024
906 Fold 3/5, Epoch 264/300, Train Loss: 12.
671201499346656, Valid Loss: 32911.35089111328,
Accuracy: 0.35823429541595925, Time Taken: 46.99s,
Learning Rate: 0.004304200000000024 -> 0.
004297600000000024
907 Fold 3/5, Epoch 265/300, Train Loss: 4.
702325051115227, Valid Loss: 1955.518201828003,
Accuracy: 0.3616298811544992, Time Taken: 47.16s,
Learning Rate: 0.004297600000000024 -> 0.
004291000000000024
908 Fold 3/5, Epoch 266/300, Train Loss: 2.
699983646756208, Valid Loss: 6492.080497741699,
Accuracy: 0.35823429541595925, Time Taken: 46.76s,
```

```
908 Learning Rate: 0.00429100000000024 -> 0.  
004284400000000024  
909 Fold 3/5, Epoch 267/300, Train Loss: 1.  
071729419709377, Valid Loss: 433.44006156921387,  
Accuracy: 0.5008488964346349, Time Taken: 46.36s,  
Learning Rate: 0.004284400000000024 -> 0.  
004277800000000024  
910 Fold 3/5, Epoch 268/300, Train Loss: 3.  
5427144195383358, Valid Loss: 1394.2275085449219,  
Accuracy: 0.4855687606112054, Time Taken: 46.73s,  
Learning Rate: 0.004277800000000024 -> 0.  
0042712000000000245  
911 Fold 3/5, Epoch 269/300, Train Loss: 5.  
293360705383645, Valid Loss: 16637.859252929688,  
Accuracy: 0.35823429541595925, Time Taken: 46.84s,  
Learning Rate: 0.0042712000000000245 -> 0.  
004264600000000025  
912 Fold 3/5, Epoch 270/300, Train Loss: 8.  
36817405098726, Valid Loss: 10018.418090820312,  
Accuracy: 0.35823429541595925, Time Taken: 47.28s,  
Learning Rate: 0.004264600000000025 -> 0.  
004258000000000025  
913 Fold 3/5, Epoch 271/300, Train Loss: 2.  
782723543557073, Valid Loss: 1728.1138305664062,  
Accuracy: 0.2835314091680815, Time Taken: 46.98s,  
Learning Rate: 0.004258000000000025 -> 0.  
004251400000000025  
914 Fold 3/5, Epoch 272/300, Train Loss: 6.  
78147146434652, Valid Loss: 35259.276794433594,  
Accuracy: 0.2835314091680815, Time Taken: 47.18s,  
Learning Rate: 0.004251400000000025 -> 0.  
004244800000000025  
915 Fold 3/5, Epoch 273/300, Train Loss: 5.  
513189384167953, Valid Loss: 61255.68310546875,  
Accuracy: 0.35823429541595925, Time Taken: 46.91s,  
Learning Rate: 0.004244800000000025 -> 0.  
004238200000000025  
916 Fold 3/5, Epoch 274/300, Train Loss: 4.  
1267161323734864, Valid Loss: 42956.32531738281,  
Accuracy: 0.35823429541595925, Time Taken: 46.40s,  
Learning Rate: 0.004238200000000025 -> 0.
```

```
916 0042316000000000254
917 Fold 3/5, Epoch 275/300, Train Loss: 7.
    089641366270384, Valid Loss: 436.64745903015137,
    Accuracy: 0.5840407470288624, Time Taken: 46.46s,
    Learning Rate: 0.0042316000000000254 -> 0.
    004225000000000026
918 Fold 3/5, Epoch 276/300, Train Loss: 5.
    4215495070735304, Valid Loss: 13991.992645263672,
    Accuracy: 0.2835314091680815, Time Taken: 46.25s,
    Learning Rate: 0.004225000000000026 -> 0.
    004218400000000026
919 Fold 3/5, Epoch 277/300, Train Loss: 8.
    531110947695087, Valid Loss: 4628.589378356934,
    Accuracy: 0.35823429541595925, Time Taken: 47.43s,
    Learning Rate: 0.004218400000000026 -> 0.
    004211800000000026
920 Fold 3/5, Epoch 278/300, Train Loss: 8.
    60482889125452, Valid Loss: 5273.043426513672,
    Accuracy: 0.35823429541595925, Time Taken: 47.39s,
    Learning Rate: 0.004211800000000026 -> 0.
    004205200000000026
921 Fold 3/5, Epoch 279/300, Train Loss: 9.
    278587726515592, Valid Loss: 1622.0361595153809,
    Accuracy: 0.2835314091680815, Time Taken: 47.42s,
    Learning Rate: 0.004205200000000026 -> 0.
    004198600000000026
922 Fold 3/5, Epoch 280/300, Train Loss: 5.
    380861231383643, Valid Loss: 8634.304733276367,
    Accuracy: 0.2835314091680815, Time Taken: 47.11s,
    Learning Rate: 0.004198600000000026 -> 0.
    0041920000000000264
923 Fold 3/5, Epoch 281/300, Train Loss: 8.
    332592156835938, Valid Loss: 769.3409533500671,
    Accuracy: 0.400679117147708, Time Taken: 46.44s,
    Learning Rate: 0.0041920000000000264 -> 0.
    004185400000000027
924 Fold 3/5, Epoch 282/300, Train Loss: 0.
    8982139309312878, Valid Loss: 7077.423904418945,
    Accuracy: 0.35823429541595925, Time Taken: 46.53s,
    Learning Rate: 0.004185400000000027 -> 0.
    004178800000000027
```

925 Fold 3/5, Epoch 283/300, Train Loss: 5.
2797075355851355, Valid Loss: 1603.102544784546,
Accuracy: 0.5025466893039049, Time Taken: 46.79s,
Learning Rate: 0.00417880000000027 -> 0.
00417220000000027

926 Fold 3/5, Epoch 284/300, Train Loss: 3.
2537452857334417, Valid Loss: 7388.596572875977,
Accuracy: 0.2835314091680815, Time Taken: 47.64s,
Learning Rate: 0.00417220000000027 -> 0.
00416560000000027

927 Fold 3/5, Epoch 285/300, Train Loss: 2.
436715553848951, Valid Loss: 7827.016799926758,
Accuracy: 0.35823429541595925, Time Taken: 47.38s,
Learning Rate: 0.00416560000000027 -> 0.
00415900000000027

928 Fold 3/5, Epoch 286/300, Train Loss: 7.
802035678521758, Valid Loss: 2999.2196884155273,
Accuracy: 0.2835314091680815, Time Taken: 47.43s,
Learning Rate: 0.00415900000000027 -> 0.
00415240000000027

929 Fold 3/5, Epoch 287/300, Train Loss: 10.
493633925357413, Valid Loss: 18614.08026123047,
Accuracy: 0.2835314091680815, Time Taken: 47.06s,
Learning Rate: 0.00415240000000027 -> 0.
00414580000000028

930 Fold 3/5, Epoch 288/300, Train Loss: 3.
487146750081294, Valid Loss: 1635.458423614502,
Accuracy: 0.2835314091680815, Time Taken: 46.11s,
Learning Rate: 0.00414580000000028 -> 0.
00413920000000028

931 Fold 3/5, Epoch 289/300, Train Loss: 4.
6936216051746005, Valid Loss: 8715.591491699219,
Accuracy: 0.35823429541595925, Time Taken: 46.03s,
Learning Rate: 0.00413920000000028 -> 0.
00413260000000028

932 Fold 3/5, Epoch 290/300, Train Loss: 5.
284550561220732, Valid Loss: 11191.816589355469,
Accuracy: 0.35823429541595925, Time Taken: 45.95s,
Learning Rate: 0.00413260000000028 -> 0.
00412600000000028

933 Fold 3/5, Epoch 291/300, Train Loss: 4.

933 254820275852011, Valid Loss: 2089.2885131835938,
Accuracy: 0.2835314091680815, Time Taken: 46.48s,
Learning Rate: 0.00412600000000028 -> 0.
004119400000000028

934 Fold 3/5, Epoch 292/300, Train Loss: 4.
0644200745903385, Valid Loss: 3887.916030883789,
Accuracy: 0.2835314091680815, Time Taken: 47.28s,
Learning Rate: 0.004119400000000028 -> 0.
004112800000000028

935 Fold 3/5, Epoch 293/300, Train Loss: 5.
259268850135829, Valid Loss: 4827.7163162231445,
Accuracy: 0.35823429541595925, Time Taken: 47.06s,
Learning Rate: 0.004112800000000028 -> 0.
004106200000000029

936 Fold 3/5, Epoch 294/300, Train Loss: 3.
7811700914316315, Valid Loss: 10322.078346252441,
Accuracy: 0.5891341256366723, Time Taken: 47.48s,
Learning Rate: 0.004106200000000029 -> 0.
004099600000000029

937 Fold 3/5, Epoch 295/300, Train Loss: 2.
5512917117978517, Valid Loss: 3799.8034172058105,
Accuracy: 0.2835314091680815, Time Taken: 46.69s,
Learning Rate: 0.004099600000000029 -> 0.
004093000000000029

938 Fold 3/5, Epoch 296/300, Train Loss: 4.
9955370440614475, Valid Loss: 5443.17520904541,
Accuracy: 0.2835314091680815, Time Taken: 46.49s,
Learning Rate: 0.004093000000000029 -> 0.
004086400000000029

939 Fold 3/5, Epoch 297/300, Train Loss: 2.
85191115461968, Valid Loss: 3714.6412391662598,
Accuracy: 0.2903225806451613, Time Taken: 46.42s,
Learning Rate: 0.004086400000000029 -> 0.
004079800000000029

940 Fold 3/5, Epoch 298/300, Train Loss: 3.
3515935994691155, Valid Loss: 23030.636108398438,
Accuracy: 0.35823429541595925, Time Taken: 46.49s,
Learning Rate: 0.004079800000000029 -> 0.
004073200000000029

941 Fold 3/5, Epoch 299/300, Train Loss: 10.
250405886141044, Valid Loss: 1867.422752380371,

```
941 Accuracy: 0.35823429541595925, Time Taken: 47.98s,  
Learning Rate: 0.004073200000000029 -> 0.  
0040666000000000296  
942 Fold 3/5, Epoch 300/300, Train Loss: 2.  
0427978589555096, Valid Loss: 39928.85363769531,  
Accuracy: 0.2835314091680815, Time Taken: 48.58s,  
Learning Rate: 0.0040666000000000296 -> 0.  
00406000000000003  
943  
944 Fold 4/5  
945 Train dataloader: 118 batches  
946 Valid dataloader: 30 batches  
947  
948 Fold 4/5, Epoch 1/300, Train Loss: 9.977804677336119  
, Valid Loss: 8493.150695800781, Accuracy: 0.  
3616298811544992, Time Taken: 47.81s, Learning Rate  
: 0.0040600000000003 -> 0.00405340000000003  
949 Fold 4/5, Epoch 2/300, Train Loss: 8.606717332075585  
, Valid Loss: 8529.024322509766, Accuracy: 0.  
2835314091680815, Time Taken: 47.04s, Learning Rate  
: 0.00405340000000003 -> 0.00404680000000003  
950 Fold 4/5, Epoch 3/300, Train Loss: 7.809349126214081  
, Valid Loss: 15560.744430541992, Accuracy: 0.  
35823429541595925, Time Taken: 46.43s, Learning Rate  
: 0.0040468000000003 -> 0.0040402000000003  
951 Fold 4/5, Epoch 4/300, Train Loss: 8.350283926981188  
, Valid Loss: 6292.468566894531, Accuracy: 0.  
35823429541595925, Time Taken: 45.99s, Learning Rate  
: 0.0040402000000003 -> 0.00403360000000003  
952 Fold 4/5, Epoch 5/300, Train Loss: 8.10074432638483  
, Valid Loss: 16193.9931640625, Accuracy: 0.  
2835314091680815, Time Taken: 46.44s, Learning Rate  
: 0.0040336000000003 -> 0.004027000000000306  
953 Fold 4/5, Epoch 6/300, Train Loss: 4.620776421729775  
, Valid Loss: 2884.6023483276367, Accuracy: 0.  
38030560271646857, Time Taken: 47.24s, Learning Rate  
: 0.004027000000000306 -> 0.004020400000000031  
954 Fold 4/5, Epoch 7/300, Train Loss: 5.19850266815241  
, Valid Loss: 19477.42352294922, Accuracy: 0.  
2835314091680815, Time Taken: 47.51s, Learning Rate  
: 0.004020400000000031 -> 0.004013800000000031
```

955 Fold 4/5, Epoch 8/300, Train Loss: 7.215236655898972
, Valid Loss: 2622.381395339966, Accuracy: 0.
3633276740237691, Time Taken: 47.09s, Learning Rate
: 0.004013800000000031 -> 0.004007200000000031

956 Fold 4/5, Epoch 9/300, Train Loss: 3.
5551786953501123, Valid Loss: 1114.727138519287,
Accuracy: 0.4074702886247878, Time Taken: 47.09s,
Learning Rate: 0.004007200000000031 -> 0.
004000600000000031

957 Fold 4/5, Epoch 10/300, Train Loss: 9.
800195306719214, Valid Loss: 3056.8960037231445,
Accuracy: 0.2835314091680815, Time Taken: 46.24s,
Learning Rate: 0.004000600000000031 -> 0.
003994000000000031

958 Fold 4/5, Epoch 11/300, Train Loss: 4.
123332048210248, Valid Loss: 193.5317313671112,
Accuracy: 0.5195246179966044, Time Taken: 47.12s,
Learning Rate: 0.003994000000000031 -> 0.
0039874000000000315

959 Fold 4/5, Epoch 12/300, Train Loss: 4.
759120207752345, Valid Loss: 1178.8333530426025,
Accuracy: 0.35823429541595925, Time Taken: 46.25s,
Learning Rate: 0.0039874000000000315 -> 0.
003980800000000032

960 Fold 4/5, Epoch 13/300, Train Loss: 4.52406129697039
, Valid Loss: 253.37630605697632, Accuracy: 0.
3769100169779287, Time Taken: 47.52s, Learning Rate
: 0.003980800000000032 -> 0.003974200000000032

961 Fold 4/5, Epoch 14/300, Train Loss: 5.
428604905642112, Valid Loss: 4322.595848083496,
Accuracy: 0.6095076400679117, Time Taken: 46.89s,
Learning Rate: 0.003974200000000032 -> 0.
003967600000000032

962 Fold 4/5, Epoch 15/300, Train Loss: 5.
9135602633191855, Valid Loss: 2630.388053894043,
Accuracy: 0.2835314091680815, Time Taken: 47.42s,
Learning Rate: 0.003967600000000032 -> 0.
003961000000000032

963 Fold 4/5, Epoch 16/300, Train Loss: 5.
245697381460109, Valid Loss: 1929.672649383545,
Accuracy: 0.35823429541595925, Time Taken: 46.97s,

```
963 Learning Rate: 0.00396100000000032 -> 0.  
003954400000000032  
964 Fold 4/5, Epoch 17/300, Train Loss: 4.  
708967148312842, Valid Loss: 260.95303535461426,  
Accuracy: 0.4244482173174873, Time Taken: 46.39s,  
Learning Rate: 0.003954400000000032 -> 0.  
0039478000000000325  
965 Fold 4/5, Epoch 18/300, Train Loss: 3.  
0591302162736227, Valid Loss: 4356.257171630859,  
Accuracy: 0.35823429541595925, Time Taken: 45.90s,  
Learning Rate: 0.0039478000000000325 -> 0.  
003941200000000033  
966 Fold 4/5, Epoch 19/300, Train Loss: 3.  
859537585089263, Valid Loss: 24291.860931396484,  
Accuracy: 0.2835314091680815, Time Taken: 46.62s,  
Learning Rate: 0.003941200000000033 -> 0.  
003934600000000033  
967 Fold 4/5, Epoch 20/300, Train Loss: 3.  
0671837014799532, Valid Loss: 1280.8566513061523,  
Accuracy: 0.3073005093378608, Time Taken: 47.54s,  
Learning Rate: 0.003934600000000033 -> 0.  
003928000000000033  
968 Fold 4/5, Epoch 21/300, Train Loss: 4.  
059825843577724, Valid Loss: 1444.4004020690918,  
Accuracy: 0.3616298811544992, Time Taken: 47.58s,  
Learning Rate: 0.003928000000000033 -> 0.  
003921400000000033  
969 Fold 4/5, Epoch 22/300, Train Loss: 11.  
009237778810787, Valid Loss: 8008.848518371582,  
Accuracy: 0.35823429541595925, Time Taken: 47.51s,  
Learning Rate: 0.003921400000000033 -> 0.  
003914800000000033  
970 Fold 4/5, Epoch 23/300, Train Loss: 5.  
479167254496567, Valid Loss: 2611.7804374694824,  
Accuracy: 0.35823429541595925, Time Taken: 46.89s,  
Learning Rate: 0.003914800000000033 -> 0.  
0039082000000000335  
971 Fold 4/5, Epoch 24/300, Train Loss: 4.  
536894140033921, Valid Loss: 10168.236801147461,  
Accuracy: 0.35823429541595925, Time Taken: 46.62s,  
Learning Rate: 0.0039082000000000335 -> 0.
```

971 0039016000000000333
972 Fold 4/5, Epoch 25/300, Train Loss: 4.
501120343767763, Valid Loss: 3165.67618560791,
Accuracy: 0.35823429541595925, Time Taken: 46.30s,
Learning Rate: 0.0039016000000000333 -> 0.
0038950000000000334
973 Fold 4/5, Epoch 26/300, Train Loss: 6.
41750532950521, Valid Loss: 1574.9490566253662,
Accuracy: 0.3633276740237691, Time Taken: 47.18s,
Learning Rate: 0.0038950000000000334 -> 0.
003888400000000033
974 Fold 4/5, Epoch 27/300, Train Loss: 4.
279584389505923, Valid Loss: 1400.7146186828613,
Accuracy: 0.6078098471986417, Time Taken: 46.83s,
Learning Rate: 0.003888400000000033 -> 0.
003881800000000033
975 Fold 4/5, Epoch 28/300, Train Loss: 5.
548661656438869, Valid Loss: 1058.552251815796,
Accuracy: 0.35823429541595925, Time Taken: 47.61s,
Learning Rate: 0.003881800000000033 -> 0.
0038752000000000326
976 Fold 4/5, Epoch 29/300, Train Loss: 5.
728677849410959, Valid Loss: 56.756578385829926,
Accuracy: 0.7232597623089984, Time Taken: 47.65s,
Learning Rate: 0.0038752000000000326 -> 0.
0038686000000000328
977 Fold 4/5, Epoch 30/300, Train Loss: 5.
299630741787535, Valid Loss: 3611.75447845459,
Accuracy: 0.2835314091680815, Time Taken: 47.23s,
Learning Rate: 0.0038686000000000328 -> 0.
0038620000000000325
978 Fold 4/5, Epoch 31/300, Train Loss: 3.
192545349279637, Valid Loss: 7517.579147338867,
Accuracy: 0.35823429541595925, Time Taken: 45.88s,
Learning Rate: 0.0038620000000000325 -> 0.
0038554000000000322
979 Fold 4/5, Epoch 32/300, Train Loss: 3.
594531524901716, Valid Loss: 1744.7613830566406,
Accuracy: 0.35823429541595925, Time Taken: 46.38s,
Learning Rate: 0.0038554000000000322 -> 0.
0038488000000000324

980 Fold 4/5, Epoch 33/300, Train Loss: 4.
901122081690772, Valid Loss: 16283.635681152344,
Accuracy: 0.2835314091680815, Time Taken: 46.76s,
Learning Rate: 0.0038488000000000324 -> 0.
0038422000000000326

981 Fold 4/5, Epoch 34/300, Train Loss: 2.
7460453696900755, Valid Loss: 13721.198928833008,
Accuracy: 0.2835314091680815, Time Taken: 47.29s,
Learning Rate: 0.0038422000000000326 -> 0.
00383560000000000323

982 Fold 4/5, Epoch 35/300, Train Loss: 4.
223710378671107, Valid Loss: 2132.8898391723633,
Accuracy: 0.2835314091680815, Time Taken: 46.88s,
Learning Rate: 0.0038356000000000323 -> 0.
003829000000000032

983 Fold 4/5, Epoch 36/300, Train Loss: 4.
669560798830141, Valid Loss: 493.486123085022,
Accuracy: 0.3599320882852292, Time Taken: 47.67s,
Learning Rate: 0.003829000000000032 -> 0.
0038224000000000318

984 Fold 4/5, Epoch 37/300, Train Loss: 4.
994629053130303, Valid Loss: 2063.0514278411865,
Accuracy: 0.35823429541595925, Time Taken: 47.03s,
Learning Rate: 0.0038224000000000318 -> 0.
003815800000000032

985 Fold 4/5, Epoch 38/300, Train Loss: 1.
8191920589467712, Valid Loss: 7804.9799728393555,
Accuracy: 0.3395585738539898, Time Taken: 46.33s,
Learning Rate: 0.003815800000000032 -> 0.
003809200000000032

986 Fold 4/5, Epoch 39/300, Train Loss: 2.
55198410939143, Valid Loss: 5987.76692199707,
Accuracy: 0.2835314091680815, Time Taken: 46.17s,
Learning Rate: 0.003809200000000032 -> 0.
003802600000000032

987 Fold 4/5, Epoch 40/300, Train Loss: 4.
645136395295282, Valid Loss: 4011.9994506835938,
Accuracy: 0.35823429541595925, Time Taken: 46.61s,
Learning Rate: 0.003802600000000032 -> 0.
003796000000000032

988 Fold 4/5, Epoch 41/300, Train Loss: 5.

988 520465328676382, Valid Loss: 15565.131805419922,
Accuracy: 0.35823429541595925, Time Taken: 46.62s,
Learning Rate: 0.003796000000000032 -> 0.
0037894000000000317

989 Fold 4/5, Epoch 42/300, Train Loss: 10.
354615429001036, Valid Loss: 1200.4390697479248,
Accuracy: 0.35823429541595925, Time Taken: 47.10s,
Learning Rate: 0.0037894000000000317 -> 0.
003782800000000032

990 Fold 4/5, Epoch 43/300, Train Loss: 5.
711449120472509, Valid Loss: 4405.496131896973,
Accuracy: 0.2835314091680815, Time Taken: 47.62s,
Learning Rate: 0.003782800000000032 -> 0.
003776200000000032

991 Fold 4/5, Epoch 44/300, Train Loss: 1.
7642475607275783, Valid Loss: 1263.518072128296,
Accuracy: 0.3616298811544992, Time Taken: 47.64s,
Learning Rate: 0.003776200000000032 -> 0.
003769600000000032

992 Fold 4/5, Epoch 45/300, Train Loss: 4.
850353028052306, Valid Loss: 60242.25646972656,
Accuracy: 0.35823429541595925, Time Taken: 46.23s,
Learning Rate: 0.003769600000000032 -> 0.
0037630000000000324

993 Fold 4/5, Epoch 46/300, Train Loss: 3.
8169204666545085, Valid Loss: 8316.681427001953,
Accuracy: 0.3599320882852292, Time Taken: 46.12s,
Learning Rate: 0.0037630000000000324 -> 0.
0037564000000000325

994 Fold 4/5, Epoch 47/300, Train Loss: 5.
899691818198691, Valid Loss: 9134.362503051758,
Accuracy: 0.35823429541595925, Time Taken: 46.10s,
Learning Rate: 0.0037564000000000325 -> 0.
0037498000000000323

995 Fold 4/5, Epoch 48/300, Train Loss: 6.
76459319916677, Valid Loss: 3429.871757507324,
Accuracy: 0.2835314091680815, Time Taken: 47.05s,
Learning Rate: 0.0037498000000000323 -> 0.
003743200000000032

996 Fold 4/5, Epoch 49/300, Train Loss: 5.
769707864823731, Valid Loss: 10406.736907958984,

```
996 Accuracy: 0.2835314091680815, Time Taken: 47.09s,  
Learning Rate: 0.003743200000000032 -> 0.  
003736600000000032  
997 Fold 4/5, Epoch 50/300, Train Loss: 5.  
426377279589085, Valid Loss: 1500.074110031128,  
Accuracy: 0.2903225806451613, Time Taken: 47.30s,  
Learning Rate: 0.003736600000000032 -> 0.  
0037300000000000323  
998 Fold 4/5, Epoch 51/300, Train Loss: 4.  
485989000400287, Valid Loss: 2545.3183212280273,  
Accuracy: 0.35823429541595925, Time Taken: 47.06s,  
Learning Rate: 0.0037300000000000323 -> 0.  
0037234000000000325  
999 Fold 4/5, Epoch 52/300, Train Loss: 4.  
103824921854335, Valid Loss: 4154.655868530273,  
Accuracy: 0.35823429541595925, Time Taken: 46.27s,  
Learning Rate: 0.0037234000000000325 -> 0.  
0037168000000000327  
1000 Fold 4/5, Epoch 53/300, Train Loss: 6.  
8230795306328424, Valid Loss: 1721.811128616333,  
Accuracy: 0.3616298811544992, Time Taken: 46.39s,  
Learning Rate: 0.0037168000000000327 -> 0.  
0037102000000000324  
1001 Fold 4/5, Epoch 54/300, Train Loss: 5.  
023753654716752, Valid Loss: 5256.342575073242,  
Accuracy: 0.35823429541595925, Time Taken: 46.50s,  
Learning Rate: 0.0037102000000000324 -> 0.  
003703600000000032  
1002 Fold 4/5, Epoch 55/300, Train Loss: 4.  
67487015383091, Valid Loss: 15186.982208251953,  
Accuracy: 0.35823429541595925, Time Taken: 46.22s,  
Learning Rate: 0.003703600000000032 -> 0.  
003697000000000032  
1003 Fold 4/5, Epoch 56/300, Train Loss: 6.  
3635367203540785, Valid Loss: 11784.960388183594,  
Accuracy: 0.35823429541595925, Time Taken: 47.20s,  
Learning Rate: 0.003697000000000032 -> 0.  
0036904000000000316  
1004 Fold 4/5, Epoch 57/300, Train Loss: 3.  
59168493344004, Valid Loss: 5912.418930053711,  
Accuracy: 0.38879456706281834, Time Taken: 47.63s,
```

```
1004 Learning Rate: 0.0036904000000000316 -> 0.  
0036838000000000313  
1005 Fold 4/5, Epoch 58/300, Train Loss: 9.  
623272235518854, Valid Loss: 1010.0953159332275,  
Accuracy: 0.3701188455008489, Time Taken: 47.50s,  
Learning Rate: 0.0036838000000000313 -> 0.  
003677200000000031  
1006 Fold 4/5, Epoch 59/300, Train Loss: 8.  
075683157625758, Valid Loss: 2447.5685958862305,  
Accuracy: 0.2835314091680815, Time Taken: 46.67s,  
Learning Rate: 0.003677200000000031 -> 0.  
0036706000000000308  
1007 Fold 4/5, Epoch 60/300, Train Loss: 4.  
508217622500476, Valid Loss: 2485.163715362549,  
Accuracy: 0.39728353140916806, Time Taken: 46.45s,  
Learning Rate: 0.0036706000000000308 -> 0.  
003664000000000031  
1008 Fold 4/5, Epoch 61/300, Train Loss: 8.  
164884306611672, Valid Loss: 22795.906494140625,  
Accuracy: 0.35823429541595925, Time Taken: 46.03s,  
Learning Rate: 0.003664000000000031 -> 0.  
0036574000000000307  
1009 Fold 4/5, Epoch 62/300, Train Loss: 4.  
766343125112366, Valid Loss: 11690.776794433594,  
Accuracy: 0.2835314091680815, Time Taken: 46.43s,  
Learning Rate: 0.0036574000000000307 -> 0.  
0036508000000000304  
1010 Fold 4/5, Epoch 63/300, Train Loss: 2.  
7531294191378937, Valid Loss: 6718.169998168945,  
Accuracy: 0.35823429541595925, Time Taken: 47.24s,  
Learning Rate: 0.0036508000000000304 -> 0.  
0036442000000000306  
1011 Fold 4/5, Epoch 64/300, Train Loss: 4.  
659321183858676, Valid Loss: 12884.894805908203,  
Accuracy: 0.2835314091680815, Time Taken: 47.14s,  
Learning Rate: 0.0036442000000000306 -> 0.  
0036376000000000307  
1012 Fold 4/5, Epoch 65/300, Train Loss: 1.  
8846073363639402, Valid Loss: 8743.995986938477,  
Accuracy: 0.35823429541595925, Time Taken: 48.05s,  
Learning Rate: 0.0036376000000000307 -> 0.
```

```
1012 0036310000000000305
1013 Fold 4/5, Epoch 66/300, Train Loss: 3.
    0267736644045407, Valid Loss: 8820.898262023926,
    Accuracy: 0.35823429541595925, Time Taken: 47.26s,
    Learning Rate: 0.0036310000000000305 -> 0.
    0036244000000000306
1014 Fold 4/5, Epoch 67/300, Train Loss: 2.
    4042450521567345, Valid Loss: 599.1152811050415,
    Accuracy: 0.32088285229202035, Time Taken: 45.78s,
    Learning Rate: 0.0036244000000000306 -> 0.
    003617800000000031
1015 Fold 4/5, Epoch 68/300, Train Loss: 5.
    815977119020083, Valid Loss: 5070.300193786621,
    Accuracy: 0.2835314091680815, Time Taken: 46.06s,
    Learning Rate: 0.003617800000000031 -> 0.
    003611200000000031
1016 Fold 4/5, Epoch 69/300, Train Loss: 2.
    7116213100335935, Valid Loss: 599.1835842132568,
    Accuracy: 0.3616298811544992, Time Taken: 46.70s,
    Learning Rate: 0.003611200000000031 -> 0.
    0036046000000000307
1017 Fold 4/5, Epoch 70/300, Train Loss: 3.
    992328675153857, Valid Loss: 19311.40071105957,
    Accuracy: 0.35823429541595925, Time Taken: 46.50s,
    Learning Rate: 0.0036046000000000307 -> 0.
    003598000000000031
1018 Fold 4/5, Epoch 71/300, Train Loss: 5.
    034260189500143, Valid Loss: 1000.4453506469727,
    Accuracy: 0.2835314091680815, Time Taken: 47.27s,
    Learning Rate: 0.003598000000000031 -> 0.
    003591400000000031
1019 Fold 4/5, Epoch 72/300, Train Loss: 3.
    112751474510116, Valid Loss: 5005.777854919434,
    Accuracy: 0.35823429541595925, Time Taken: 47.01s,
    Learning Rate: 0.003591400000000031 -> 0.
    003584800000000031
1020 Fold 4/5, Epoch 73/300, Train Loss: 5.
    224068316649222, Valid Loss: 1999.434867858867,
    Accuracy: 0.2835314091680815, Time Taken: 46.96s,
    Learning Rate: 0.003584800000000031 -> 0.
    003578200000000031
```

1021 Fold 4/5, Epoch 74/300, Train Loss: 2.
4905979270600938, Valid Loss: 2284.2387161254883,
Accuracy: 0.3616298811544992, Time Taken: 45.80s,
Learning Rate: 0.003578200000000031 -> 0.
003571600000000031

1022 Fold 4/5, Epoch 75/300, Train Loss: 5.
505540510012526, Valid Loss: 4355.771392822266,
Accuracy: 0.2835314091680815, Time Taken: 45.86s,
Learning Rate: 0.003571600000000031 -> 0.
003565000000000031

1023 Fold 4/5, Epoch 76/300, Train Loss: 3.
7573005817994574, Valid Loss: 798.6167526245117,
Accuracy: 0.5365025466893039, Time Taken: 46.72s,
Learning Rate: 0.003565000000000031 -> 0.
003558400000000031

1024 Fold 4/5, Epoch 77/300, Train Loss: 3.
8263389717771528, Valid Loss: 1228.1795692443848,
Accuracy: 0.2903225806451613, Time Taken: 47.40s,
Learning Rate: 0.003558400000000031 -> 0.
0035518000000000307

1025 Fold 4/5, Epoch 78/300, Train Loss: 3.
0925289281837776, Valid Loss: 1334.0519065856934,
Accuracy: 0.38200339558573854, Time Taken: 48.41s,
Learning Rate: 0.0035518000000000307 -> 0.
003545200000000031

1026 Fold 4/5, Epoch 79/300, Train Loss: 4.
542954374199076, Valid Loss: 944.0974044799805,
Accuracy: 0.3701188455008489, Time Taken: 49.21s,
Learning Rate: 0.003545200000000031 -> 0.
003538600000000031

1027 Fold 4/5, Epoch 80/300, Train Loss: 4.
102081480146143, Valid Loss: 1034.3983192443848,
Accuracy: 0.3599320882852292, Time Taken: 53.07s,
Learning Rate: 0.003538600000000031 -> 0.
003532000000000031

1028 Fold 4/5, Epoch 81/300, Train Loss: 3.
7863308067946377, Valid Loss: 22700.276397705078,
Accuracy: 0.35823429541595925, Time Taken: 52.89s,
Learning Rate: 0.003532000000000031 -> 0.
003525400000000031

1029 Fold 4/5, Epoch 82/300, Train Loss: 5.

1029 826048728801241, Valid Loss: 750.8607273101807,
Accuracy: 0.3599320882852292, Time Taken: 46.57s,
Learning Rate: 0.003525400000000031 -> 0.
0035188000000000307

1030 Fold 4/5, Epoch 83/300, Train Loss: 4.
344238864098316, Valid Loss: 2106.036781311035,
Accuracy: 0.35823429541595925, Time Taken: 46.75s,
Learning Rate: 0.0035188000000000307 -> 0.
0035122000000000304

1031 Fold 4/5, Epoch 84/300, Train Loss: 4.
786606380717217, Valid Loss: 814.1131477355957,
Accuracy: 0.3599320882852292, Time Taken: 46.69s,
Learning Rate: 0.0035122000000000304 -> 0.
00350560000000003

1032 Fold 4/5, Epoch 85/300, Train Loss: 3.
798705661083157, Valid Loss: 1150.3594074249268,
Accuracy: 0.35823429541595925, Time Taken: 47.59s,
Learning Rate: 0.00350560000000003 -> 0.
0034990000000000303

1033 Fold 4/5, Epoch 86/300, Train Loss: 4.
51246300995566, Valid Loss: 8856.910751342773,
Accuracy: 0.2835314091680815, Time Taken: 47.51s,
Learning Rate: 0.0034990000000000303 -> 0.
0034924000000000305

1034 Fold 4/5, Epoch 87/300, Train Loss: 8.
994961602104748, Valid Loss: 1464.0461025238037,
Accuracy: 0.366723259762309, Time Taken: 47.71s,
Learning Rate: 0.0034924000000000305 -> 0.
0034858000000000306

1035 Fold 4/5, Epoch 88/300, Train Loss: 4.
954708255841644, Valid Loss: 4933.650741577148,
Accuracy: 0.3599320882852292, Time Taken: 46.84s,
Learning Rate: 0.0034858000000000306 -> 0.
003479200000000031

1036 Fold 4/5, Epoch 89/300, Train Loss: 2.
0271704612961443, Valid Loss: 1066.196102142334,
Accuracy: 0.4227504244482173, Time Taken: 46.07s,
Learning Rate: 0.003479200000000031 -> 0.
003472600000000031

1037 Fold 4/5, Epoch 90/300, Train Loss: 1.
4625394797631586, Valid Loss: 1538.4270610809326,

```
1037 Accuracy: 0.534804753820034, Time Taken: 46.79s,
    Learning Rate: 0.003472600000000031 -> 0.
    0034660000000000307
1038 Fold 4/5, Epoch 91/300, Train Loss: 5.
    661961479419926, Valid Loss: 2052.3427772521973,
    Accuracy: 0.29711375212224106, Time Taken: 47.01s,
    Learning Rate: 0.0034660000000000307 -> 0.
    003459400000000031
1039 Fold 4/5, Epoch 92/300, Train Loss: 4.
    195409016253116, Valid Loss: 1477.6471214294434,
    Accuracy: 0.28522920203735147, Time Taken: 47.41s,
    Learning Rate: 0.003459400000000031 -> 0.
    003452800000000031
1040 Fold 4/5, Epoch 93/300, Train Loss: 4.
    37020803972466, Valid Loss: 13551.547546386719,
    Accuracy: 0.35823429541595925, Time Taken: 47.00s,
    Learning Rate: 0.003452800000000031 -> 0.
    0034462000000000307
1041 Fold 4/5, Epoch 94/300, Train Loss: 4.
    986196601828667, Valid Loss: 2819.8641242980957,
    Accuracy: 0.4142614601018676, Time Taken: 47.23s,
    Learning Rate: 0.0034462000000000307 -> 0.
    0034396000000000305
1042 Fold 4/5, Epoch 95/300, Train Loss: 4.
    947717003943246, Valid Loss: 801.2664842605591,
    Accuracy: 0.3633276740237691, Time Taken: 46.32s,
    Learning Rate: 0.0034396000000000305 -> 0.
    0034330000000000306
1043 Fold 4/5, Epoch 96/300, Train Loss: 5.
    357758021056024, Valid Loss: 6116.025535583496,
    Accuracy: 0.35823429541595925, Time Taken: 46.69s,
    Learning Rate: 0.0034330000000000306 -> 0.
    0034264000000000304
1044 Fold 4/5, Epoch 97/300, Train Loss: 4.
    234453906907405, Valid Loss: 16488.94647216797,
    Accuracy: 0.35823429541595925, Time Taken: 46.47s,
    Learning Rate: 0.0034264000000000304 -> 0.
    0034198000000000305
1045 Fold 4/5, Epoch 98/300, Train Loss: 2.
    3355785853785935, Valid Loss: 25124.20132446289,
    Accuracy: 0.35823429541595925, Time Taken: 46.96s,
```

```
1045 Learning Rate: 0.0034198000000000305 -> 0.  
0034132000000000307  
1046 Fold 4/5, Epoch 99/300, Train Loss: 3.  
3586318828419293, Valid Loss: 5122.360610961914,  
Accuracy: 0.3599320882852292, Time Taken: 47.44s,  
Learning Rate: 0.0034132000000000307 -> 0.  
0034066000000000304  
1047 Fold 4/5, Epoch 100/300, Train Loss: 8.  
170824310327935, Valid Loss: 5259.790336608887,  
Accuracy: 0.35823429541595925, Time Taken: 47.28s,  
Learning Rate: 0.0034066000000000304 -> 0.  
0034000000000000306  
1048 Fold 4/5, Epoch 101/300, Train Loss: 2.  
383683109686081, Valid Loss: 2168.468780517578,  
Accuracy: 0.35823429541595925, Time Taken: 47.52s,  
Learning Rate: 0.0034000000000000306 -> 0.  
0033934000000000308  
1049 Fold 4/5, Epoch 102/300, Train Loss: 3.  
637428231874149, Valid Loss: 8318.87018585205,  
Accuracy: 0.35823429541595925, Time Taken: 46.52s,  
Learning Rate: 0.0033934000000000308 -> 0.  
003386800000000031  
1050 Fold 4/5, Epoch 103/300, Train Loss: 3.  
231595633202886, Valid Loss: 1876.9081764221191,  
Accuracy: 0.35823429541595925, Time Taken: 46.48s,  
Learning Rate: 0.003386800000000031 -> 0.  
003380200000000031  
1051 Fold 4/5, Epoch 104/300, Train Loss: 2.  
085295258857337, Valid Loss: 1281.1445655822754,  
Accuracy: 0.3616298811544992, Time Taken: 46.19s,  
Learning Rate: 0.003380200000000031 -> 0.  
003373600000000031  
1052 Fold 4/5, Epoch 105/300, Train Loss: 3.  
6189222129987417, Valid Loss: 1024.4953384399414,  
Accuracy: 0.4380305602716469, Time Taken: 46.37s,  
Learning Rate: 0.003373600000000031 -> 0.  
003367000000000031  
1053 Fold 4/5, Epoch 106/300, Train Loss: 3.  
3643394515715475, Valid Loss: 4119.92707824707,  
Accuracy: 0.35823429541595925, Time Taken: 47.02s,  
Learning Rate: 0.003367000000000031 -> 0.
```

1053 00336040000000000307
1054 Fold 4/5, Epoch 107/300, Train Loss: 3.
2081659095816466, Valid Loss: 3395.758762359619,
Accuracy: 0.4465195246179966, Time Taken: 47.11s,
Learning Rate: 0.0033604000000000307 -> 0.
00335380000000000305
1055 Fold 4/5, Epoch 108/300, Train Loss: 3.
6446646262717675, Valid Loss: 3169.6971473693848,
Accuracy: 0.35823429541595925, Time Taken: 47.39s,
Learning Rate: 0.0033538000000000305 -> 0.
003347200000000003
1056 Fold 4/5, Epoch 109/300, Train Loss: 6.
601103719819019, Valid Loss: 830.7775268554688,
Accuracy: 0.28862478777589134, Time Taken: 46.75s,
Learning Rate: 0.00334720000000003 -> 0.
003340600000000003
1057 Fold 4/5, Epoch 110/300, Train Loss: 3.
6857891533425553, Valid Loss: 5230.0316162109375,
Accuracy: 0.2835314091680815, Time Taken: 46.46s,
Learning Rate: 0.00334060000000003 -> 0.
003334000000000003
1058 Fold 4/5, Epoch 111/300, Train Loss: 2.
7394974457753394, Valid Loss: 2406.2097091674805,
Accuracy: 0.2835314091680815, Time Taken: 45.94s,
Learning Rate: 0.00333400000000003 -> 0.
003327400000000003
1059 Fold 4/5, Epoch 112/300, Train Loss: 3.
941959238267703, Valid Loss: 8882.908432006836,
Accuracy: 0.2835314091680815, Time Taken: 46.66s,
Learning Rate: 0.00332740000000003 -> 0.
0033208000000000295
1060 Fold 4/5, Epoch 113/300, Train Loss: 4.
038030702476027, Valid Loss: 1041.730448961258,
Accuracy: 0.38879456706281834, Time Taken: 46.70s,
Learning Rate: 0.0033208000000000295 -> 0.
0033142000000000293
1061 Fold 4/5, Epoch 114/300, Train Loss: 6.
068246515485945, Valid Loss: 4010.762725830078,
Accuracy: 0.35823429541595925, Time Taken: 47.51s,
Learning Rate: 0.0033142000000000293 -> 0.
003307600000000029

1062 Fold 4/5, Epoch 115/300, Train Loss: 2.
906045380883339, Valid Loss: 1469.5664291381836,
Accuracy: 0.35823429541595925, Time Taken: 48.12s,
Learning Rate: 0.003307600000000029 -> 0.
003301000000000029

1063 Fold 4/5, Epoch 116/300, Train Loss: 2.
961341513075472, Valid Loss: 12247.607345581055,
Accuracy: 0.35823429541595925, Time Taken: 46.85s,
Learning Rate: 0.003301000000000029 -> 0.
0032944000000000293

1064 Fold 4/5, Epoch 117/300, Train Loss: 5.
433902484739773, Valid Loss: 3128.329032897949,
Accuracy: 0.35823429541595925, Time Taken: 46.43s,
Learning Rate: 0.0032944000000000293 -> 0.
003287800000000029

1065 Fold 4/5, Epoch 118/300, Train Loss: 3.
331270341831293, Valid Loss: 1983.4507369995117,
Accuracy: 0.3599320882852292, Time Taken: 46.68s,
Learning Rate: 0.003287800000000029 -> 0.
0032812000000000292

1066 Fold 4/5, Epoch 119/300, Train Loss: 2.
4180038847424665, Valid Loss: 5346.93310546875,
Accuracy: 0.35823429541595925, Time Taken: 46.41s,
Learning Rate: 0.0032812000000000292 -> 0.
003274600000000029

1067 Fold 4/5, Epoch 120/300, Train Loss: 1.
7834608489682005, Valid Loss: 554.7384872436523,
Accuracy: 0.4244482173174873, Time Taken: 46.70s,
Learning Rate: 0.003274600000000029 -> 0.
003268000000000029

1068 Fold 4/5, Epoch 121/300, Train Loss: 2.
4771638496439783, Valid Loss: 4625.893821716309,
Accuracy: 0.3599320882852292, Time Taken: 47.43s,
Learning Rate: 0.003268000000000029 -> 0.
0032614000000000293

1069 Fold 4/5, Epoch 122/300, Train Loss: 4.
732418693806645, Valid Loss: 964.286979675293,
Accuracy: 0.36502546689303905, Time Taken: 46.90s,
Learning Rate: 0.0032614000000000293 -> 0.
003254800000000029

1070 Fold 4/5, Epoch 123/300, Train Loss: 4.

1070 850337066929927, Valid Loss: 1837.1908683776855,
Accuracy: 0.35823429541595925, Time Taken: 47.65s,
Learning Rate: 0.003254800000000029 -> 0.
0032482000000000288

1071 Fold 4/5, Epoch 124/300, Train Loss: 3.
3429446287504376, Valid Loss: 789.2112712860107,
Accuracy: 0.2920203735144312, Time Taken: 46.27s,
Learning Rate: 0.0032482000000000288 -> 0.
003241600000000029

1072 Fold 4/5, Epoch 125/300, Train Loss: 3.
135307419639501, Valid Loss: 2166.612085342407,
Accuracy: 0.45161290322580644, Time Taken: 45.90s,
Learning Rate: 0.003241600000000029 -> 0.
0032350000000000287

1073 Fold 4/5, Epoch 126/300, Train Loss: 3.
520091218350836, Valid Loss: 1898.459358215332,
Accuracy: 0.28522920203735147, Time Taken: 46.62s,
Learning Rate: 0.0032350000000000287 -> 0.
0032284000000000284

1074 Fold 4/5, Epoch 127/300, Train Loss: 1.
9668216335293778, Valid Loss: 79.1210206747055,
Accuracy: 0.6689303904923599, Time Taken: 46.52s,
Learning Rate: 0.0032284000000000284 -> 0.
003221800000000028

1075 Fold 4/5, Epoch 128/300, Train Loss: 0.
7435470385497593, Valid Loss: 1269.0130863189697,
Accuracy: 0.3921901528013582, Time Taken: 47.66s,
Learning Rate: 0.003221800000000028 -> 0.
0032152000000000283

1076 Fold 4/5, Epoch 129/300, Train Loss: 1.
7421370988769542, Valid Loss: 1778.668348312378,
Accuracy: 0.4397283531409168, Time Taken: 46.95s,
Learning Rate: 0.0032152000000000283 -> 0.
0032086000000000284

1077 Fold 4/5, Epoch 130/300, Train Loss: 1.
5531519724908573, Valid Loss: 2391.0752296447754,
Accuracy: 0.35823429541595925, Time Taken: 47.19s,
Learning Rate: 0.0032086000000000284 -> 0.
003202000000000028

1078 Fold 4/5, Epoch 131/300, Train Loss: 4.
507682709517363, Valid Loss: 9983.954711914062,

1078 Accuracy: 0.35823429541595925, Time Taken: 46.12s,
Learning Rate: 0.00320200000000028 -> 0.
0031954000000000283

1079 Fold 4/5, Epoch 132/300, Train Loss: 3.
7292756707307424, Valid Loss: 2985.9313163757324,
Accuracy: 0.3599320882852292, Time Taken: 46.55s,
Learning Rate: 0.0031954000000000283 -> 0.
0031888000000000285

1080 Fold 4/5, Epoch 133/300, Train Loss: 4.
791555070723803, Valid Loss: 4145.077159881592,
Accuracy: 0.31069609507640067, Time Taken: 46.61s,
Learning Rate: 0.0031888000000000285 -> 0.
0031822000000000287

1081 Fold 4/5, Epoch 134/300, Train Loss: 5.
3582710940942375, Valid Loss: 3159.1557655334473,
Accuracy: 0.35823429541595925, Time Taken: 47.46s,
Learning Rate: 0.0031822000000000287 -> 0.
0031756000000000284

1082 Fold 4/5, Epoch 135/300, Train Loss: 3.
891500381800503, Valid Loss: 4703.644454956055,
Accuracy: 0.631578947368421, Time Taken: 47.18s,
Learning Rate: 0.0031756000000000284 -> 0.
003169000000000028

1083 Fold 4/5, Epoch 136/300, Train Loss: 4.
916060756924105, Valid Loss: 4054.8164443969727,
Accuracy: 0.28522920203735147, Time Taken: 47.20s,
Learning Rate: 0.003169000000000028 -> 0.
003162400000000028

1084 Fold 4/5, Epoch 137/300, Train Loss: 5.
991381289762889, Valid Loss: 706.7500658035278,
Accuracy: 0.3599320882852292, Time Taken: 47.39s,
Learning Rate: 0.003162400000000028 -> 0.
0031558000000000276

1085 Fold 4/5, Epoch 138/300, Train Loss: 3.
354553503693584, Valid Loss: 1445.9248600006104,
Accuracy: 0.35823429541595925, Time Taken: 46.75s,
Learning Rate: 0.0031558000000000276 -> 0.
0031492000000000278

1086 Fold 4/5, Epoch 139/300, Train Loss: 2.
5191198915635953, Valid Loss: 596.6525888442993,
Accuracy: 0.3735144312393888, Time Taken: 46.58s,

```
1086 Learning Rate: 0.003149200000000278 -> 0.  
003142600000000028  
1087 Fold 4/5, Epoch 140/300, Train Loss: 3.  
2912684529256717, Valid Loss: 1715.7004356384277,  
Accuracy: 0.2835314091680815, Time Taken: 46.77s,  
Learning Rate: 0.003142600000000028 -> 0.  
0031360000000000277  
1088 Fold 4/5, Epoch 141/300, Train Loss: 4.  
155242143583287, Valid Loss: 474.9188528060913,  
Accuracy: 0.3531409168081494, Time Taken: 47.21s,  
Learning Rate: 0.0031360000000000277 -> 0.  
0031294000000000274  
1089 Fold 4/5, Epoch 142/300, Train Loss: 4.  
504344412994111, Valid Loss: 2102.3886222839355,  
Accuracy: 0.366723259762309, Time Taken: 47.54s,  
Learning Rate: 0.0031294000000000274 -> 0.  
003122800000000027  
1090 Fold 4/5, Epoch 143/300, Train Loss: 2.  
07809489241824, Valid Loss: 1796.5515804290771,  
Accuracy: 0.2835314091680815, Time Taken: 47.54s,  
Learning Rate: 0.003122800000000027 -> 0.  
0031162000000000273  
1091 Fold 4/5, Epoch 144/300, Train Loss: 2.  
1265357354042465, Valid Loss: 1426.5512199401855,  
Accuracy: 0.38030560271646857, Time Taken: 47.63s,  
Learning Rate: 0.0031162000000000273 -> 0.  
003109600000000027  
1092 Fold 4/5, Epoch 145/300, Train Loss: 2.  
078938634203195, Valid Loss: 1068.776119709015,  
Accuracy: 0.5398981324278438, Time Taken: 46.66s,  
Learning Rate: 0.003109600000000027 -> 0.  
003103000000000027  
1093 Fold 4/5, Epoch 146/300, Train Loss: 3.  
5930211804171, Valid Loss: 4223.566818237305,  
Accuracy: 0.36502546689303905, Time Taken: 45.97s,  
Learning Rate: 0.003103000000000027 -> 0.  
0030964000000000273  
1094 Fold 4/5, Epoch 147/300, Train Loss: 4.  
5070287717391775, Valid Loss: 1452.7886791229248,  
Accuracy: 0.35823429541595925, Time Taken: 46.29s,  
Learning Rate: 0.0030964000000000273 -> 0.
```

1094 003089800000000027
1095 Fold 4/5, Epoch 148/300, Train Loss: 3.
3928770568071123, Valid Loss: 2521.746047973633,
Accuracy: 0.466893039049236, Time Taken: 47.07s,
Learning Rate: 0.003089800000000027 -> 0.
003083200000000027
1096 Fold 4/5, Epoch 149/300, Train Loss: 2.
4721716161574427, Valid Loss: 1239.638370513916,
Accuracy: 0.2835314091680815, Time Taken: 47.40s,
Learning Rate: 0.003083200000000027 -> 0.
003076600000000027
1097 Fold 4/5, Epoch 150/300, Train Loss: 2.
5860191446274117, Valid Loss: 8295.048202514648,
Accuracy: 0.2835314091680815, Time Taken: 47.29s,
Learning Rate: 0.003076600000000027 -> 0.
0030700000000000267
1098 Fold 4/5, Epoch 151/300, Train Loss: 2.
5783341400696527, Valid Loss: 1906.6382141113281,
Accuracy: 0.33446519524617996, Time Taken: 47.90s,
Learning Rate: 0.0030700000000000267 -> 0.
003063400000000027
1099 Fold 4/5, Epoch 152/300, Train Loss: 5.
130493868839992, Valid Loss: 3149.3676834106445,
Accuracy: 0.3599320882852292, Time Taken: 46.40s,
Learning Rate: 0.003063400000000027 -> 0.
0030568000000000266
1100 Fold 4/5, Epoch 153/300, Train Loss: 4.
38594327321389, Valid Loss: 1882.258430480957,
Accuracy: 0.3089983022071307, Time Taken: 46.06s,
Learning Rate: 0.0030568000000000266 -> 0.
0030502000000000263
1101 Fold 4/5, Epoch 154/300, Train Loss: 2.
168168182024063, Valid Loss: 561.7638721466064,
Accuracy: 0.3599320882852292, Time Taken: 46.70s,
Learning Rate: 0.0030502000000000263 -> 0.
0030436000000000265
1102 Fold 4/5, Epoch 155/300, Train Loss: 3.
3110112847487967, Valid Loss: 2981.8592529296875,
Accuracy: 0.35823429541595925, Time Taken: 46.56s,
Learning Rate: 0.0030436000000000265 -> 0.
0030370000000000267

1103 Fold 4/5, Epoch 156/300, Train Loss: 6.
30302011297583, Valid Loss: 786.9293424487114,
Accuracy: 0.5246179966044142, Time Taken: 46.77s,
Learning Rate: 0.003037000000000267 -> 0.
003030400000000027

1104 Fold 4/5, Epoch 157/300, Train Loss: 3.
7569609050047745, Valid Loss: 184.2563190460205,
Accuracy: 0.5161290322580645, Time Taken: 47.21s,
Learning Rate: 0.00303040000000027 -> 0.
003023800000000027

1105 Fold 4/5, Epoch 158/300, Train Loss: 3.
234095062916121, Valid Loss: 2416.223487854004,
Accuracy: 0.2835314091680815, Time Taken: 47.16s,
Learning Rate: 0.00302380000000027 -> 0.
003017200000000027

1106 Fold 4/5, Epoch 159/300, Train Loss: 2.
841309208467683, Valid Loss: 11336.826553344727,
Accuracy: 0.2835314091680815, Time Taken: 47.05s,
Learning Rate: 0.00301720000000027 -> 0.
003010600000000027

1107 Fold 4/5, Epoch 160/300, Train Loss: 4.
678353120657724, Valid Loss: 569.3259754180908,
Accuracy: 0.5127334465195246, Time Taken: 46.01s,
Learning Rate: 0.00301060000000027 -> 0.
003004000000000266

1108 Fold 4/5, Epoch 161/300, Train Loss: 2.
445776885165338, Valid Loss: 5318.999801635742,
Accuracy: 0.2835314091680815, Time Taken: 46.04s,
Learning Rate: 0.003004000000000266 -> 0.
0029974000000000268

1109 Fold 4/5, Epoch 162/300, Train Loss: 5.
266813415244159, Valid Loss: 1394.4458541870117,
Accuracy: 0.2835314091680815, Time Taken: 47.08s,
Learning Rate: 0.002997400000000268 -> 0.
002990800000000027

1110 Fold 4/5, Epoch 163/300, Train Loss: 1.
4048354611218548, Valid Loss: 1.5140838776962369,
Accuracy: 0.9847198641765704, Time Taken: 46.74s,
Learning Rate: 0.00299080000000027 -> 0.
0029842000000000267

1111 Fold 4/5, Epoch 164/300, Train Loss: 1.

```
1111 9141730125811662, Valid Loss: 311.9558742046356,  
Accuracy: 0.5959252971137521, Time Taken: 47.41s,  
Learning Rate: 0.002984200000000267 -> 0.  
0029776000000000264  
1112 Fold 4/5, Epoch 165/300, Train Loss: 1.  
5595516128946842, Valid Loss: 2125.1757202148438,  
Accuracy: 0.3599320882852292, Time Taken: 46.95s,  
Learning Rate: 0.0029776000000000264 -> 0.  
0029710000000000266  
1113 Fold 4/5, Epoch 166/300, Train Loss: 1.  
9450980330174792, Valid Loss: 17033.350067138672,  
Accuracy: 0.2835314091680815, Time Taken: 47.08s,  
Learning Rate: 0.0029710000000000266 -> 0.  
0029644000000000267  
1114 Fold 4/5, Epoch 167/300, Train Loss: 6.  
112087781908789, Valid Loss: 1438.295612335205,  
Accuracy: 0.4465195246179966, Time Taken: 45.91s,  
Learning Rate: 0.0029644000000000267 -> 0.  
002957800000000027  
1115 Fold 4/5, Epoch 168/300, Train Loss: 5.  
426230971977377, Valid Loss: 1478.6715354919434,  
Accuracy: 0.3599320882852292, Time Taken: 46.45s,  
Learning Rate: 0.002957800000000027 -> 0.  
002951200000000027  
1116 Fold 4/5, Epoch 169/300, Train Loss: 2.  
2449335262637824, Valid Loss: 7920.370300292969,  
Accuracy: 0.35823429541595925, Time Taken: 46.31s,  
Learning Rate: 0.002951200000000027 -> 0.  
002944600000000027  
1117 Fold 4/5, Epoch 170/300, Train Loss: 2.  
8668073812031887, Valid Loss: 1147.4781494140625,  
Accuracy: 0.2835314091680815, Time Taken: 47.13s,  
Learning Rate: 0.002944600000000027 -> 0.  
0029380000000000265  
1118 Fold 4/5, Epoch 171/300, Train Loss: 1.  
8484559593511465, Valid Loss: 3079.836093902588,  
Accuracy: 0.3599320882852292, Time Taken: 47.34s,  
Learning Rate: 0.0029380000000000265 -> 0.  
0029314000000000267  
1119 Fold 4/5, Epoch 172/300, Train Loss: 2.  
2825507650022088, Valid Loss: 2193.754779815674,
```

```
1119 Accuracy: 0.35823429541595925, Time Taken: 47.13s,
    Learning Rate: 0.0029314000000000267 -> 0.
    002924800000000027
1120 Fold 4/5, Epoch 173/300, Train Loss: 1.
    638149924307788, Valid Loss: 557.8513422012329,
    Accuracy: 0.3938879456706282, Time Taken: 47.39s,
    Learning Rate: 0.002924800000000027 -> 0.
    002918200000000027
1121 Fold 4/5, Epoch 174/300, Train Loss: 3.
    889838819088734, Valid Loss: 4128.464874267578,
    Accuracy: 0.2835314091680815, Time Taken: 45.99s,
    Learning Rate: 0.002918200000000027 -> 0.
    0029116000000000268
1122 Fold 4/5, Epoch 175/300, Train Loss: 6.
    211596135151554, Valid Loss: 13348.638320922852,
    Accuracy: 0.35823429541595925, Time Taken: 46.21s,
    Learning Rate: 0.0029116000000000268 -> 0.
    002905000000000027
1123 Fold 4/5, Epoch 176/300, Train Loss: 2.
    264264131053401, Valid Loss: 236.72730827331543,
    Accuracy: 0.5959252971137521, Time Taken: 46.23s,
    Learning Rate: 0.002905000000000027 -> 0.
    0028984000000000266
1124 Fold 4/5, Epoch 177/300, Train Loss: 7.
    917053610627434, Valid Loss: 19510.241119384766,
    Accuracy: 0.2835314091680815, Time Taken: 46.73s,
    Learning Rate: 0.0028984000000000266 -> 0.
    002891800000000027
1125 Fold 4/5, Epoch 178/300, Train Loss: 3.
    4265658582647367, Valid Loss: 7744.496444702148,
    Accuracy: 0.35823429541595925, Time Taken: 47.15s,
    Learning Rate: 0.002891800000000027 -> 0.
    0028852000000000265
1126 Fold 4/5, Epoch 179/300, Train Loss: 2.
    7160849489563237, Valid Loss: 5092.021102905273,
    Accuracy: 0.2835314091680815, Time Taken: 47.66s,
    Learning Rate: 0.0028852000000000265 -> 0.
    0028786000000000263
1127 Fold 4/5, Epoch 180/300, Train Loss: 1.
    758658182521173, Valid Loss: 998.9818925857544,
    Accuracy: 0.4142614601018676, Time Taken: 47.04s,
```

```
1127 Learning Rate: 0.0028786000000000263 -> 0.  
002872000000000026  
1128 Fold 4/5, Epoch 181/300, Train Loss: 2.  
110371031861992, Valid Loss: 3574.172622680664,  
Accuracy: 0.2835314091680815, Time Taken: 46.37s,  
Learning Rate: 0.002872000000000026 -> 0.  
002865400000000026  
1129 Fold 4/5, Epoch 182/300, Train Loss: 4.  
161216593176443, Valid Loss: 5048.19450378418,  
Accuracy: 0.35823429541595925, Time Taken: 46.06s,  
Learning Rate: 0.002865400000000026 -> 0.  
0028588000000000263  
1130 Fold 4/5, Epoch 183/300, Train Loss: 1.  
5321589779951594, Valid Loss: 0.017259661967549356  
, Accuracy: 1.0, Time Taken: 46.84s, Learning Rate  
: 0.0028588000000000263 -> 0.0028522000000000265  
1131 Fold 4/5, Epoch 184/300, Train Loss: 5.  
575203241440185, Valid Loss: 5948.815711975098,  
Accuracy: 0.2835314091680815, Time Taken: 46.58s,  
Learning Rate: 0.0028522000000000265 -> 0.  
0028456000000000262  
1132 Fold 4/5, Epoch 185/300, Train Loss: 1.  
5842028036268685, Valid Loss: 6230.07698059082,  
Accuracy: 0.35823429541595925, Time Taken: 46.90s,  
Learning Rate: 0.0028456000000000262 -> 0.  
002839000000000026  
1133 Fold 4/5, Epoch 186/300, Train Loss: 2.  
400283606670664, Valid Loss: 4414.49284362793,  
Accuracy: 0.35823429541595925, Time Taken: 48.29s,  
Learning Rate: 0.002839000000000026 -> 0.  
0028324000000000257  
1134 Fold 4/5, Epoch 187/300, Train Loss: 1.  
8651244891591858, Valid Loss: 992.9313659667969,  
Accuracy: 0.4074702886247878, Time Taken: 47.91s,  
Learning Rate: 0.0028324000000000257 -> 0.  
002825800000000026  
1135 Fold 4/5, Epoch 188/300, Train Loss: 3.  
2691095583868437, Valid Loss: 1859.1317253112793,  
Accuracy: 0.5942275042444821, Time Taken: 47.17s,  
Learning Rate: 0.002825800000000026 -> 0.  
002819200000000026
```

1136 Fold 4/5, Epoch 189/300, Train Loss: 2.
8510395960342194, Valid Loss: 6506.050048828125,
Accuracy: 0.2835314091680815, Time Taken: 46.18s,
Learning Rate: 0.00281920000000026 -> 0.
002812600000000026

1137 Fold 4/5, Epoch 190/300, Train Loss: 0.
8463768872008668, Valid Loss: 1725.476951599121,
Accuracy: 0.35823429541595925, Time Taken: 46.10s,
Learning Rate: 0.002812600000000026 -> 0.
002806000000000026

1138 Fold 4/5, Epoch 191/300, Train Loss: 4.
236396118035408, Valid Loss: 4997.253112792969,
Accuracy: 0.35823429541595925, Time Taken: 47.55s,
Learning Rate: 0.00280600000000026 -> 0.
002799400000000026

1139 Fold 4/5, Epoch 192/300, Train Loss: 4.
898839104777264, Valid Loss: 19064.089447021484,
Accuracy: 0.35823429541595925, Time Taken: 47.30s,
Learning Rate: 0.002799400000000026 -> 0.
0027928000000000263

1140 Fold 4/5, Epoch 193/300, Train Loss: 3.
1132209148122127, Valid Loss: 5660.464996337891,
Accuracy: 0.35823429541595925, Time Taken: 46.96s,
Learning Rate: 0.0027928000000000263 -> 0.
002786200000000026

1141 Fold 4/5, Epoch 194/300, Train Loss: 2.
7882552942646965, Valid Loss: 825.6204013824463,
Accuracy: 0.44991511035653653, Time Taken: 47.09s,
Learning Rate: 0.002786200000000026 -> 0.
0027796000000000257

1142 Fold 4/5, Epoch 195/300, Train Loss: 2.
6803099737570184, Valid Loss: 118.74436283111572,
Accuracy: 0.6451612903225806, Time Taken: 46.48s,
Learning Rate: 0.0027796000000000257 -> 0.
0027730000000000254

1143 Fold 4/5, Epoch 196/300, Train Loss: 1.
5244828939975328, Valid Loss: 1862.7701168060303,
Accuracy: 0.4159592529711375, Time Taken: 46.61s,
Learning Rate: 0.0027730000000000254 -> 0.
0027664000000000256

1144 Fold 4/5, Epoch 197/300, Train Loss: 2.

```
1144 0611241411734813, Valid Loss: 1354.6158065795898,  
Accuracy: 0.2835314091680815, Time Taken: 46.02s,  
Learning Rate: 0.0027664000000000256 -> 0.  
0027598000000000253  
1145 Fold 4/5, Epoch 198/300, Train Loss: 4.  
027887416743879, Valid Loss: 12594.440505981445,  
Accuracy: 0.2835314091680815, Time Taken: 46.59s,  
Learning Rate: 0.0027598000000000253 -> 0.  
002753200000000025  
1146 Fold 4/5, Epoch 199/300, Train Loss: 5.  
140382538032715, Valid Loss: 16461.199493408203,  
Accuracy: 0.2835314091680815, Time Taken: 46.83s,  
Learning Rate: 0.002753200000000025 -> 0.  
0027466000000000252  
1147 Fold 4/5, Epoch 200/300, Train Loss: 3.  
0996436383931982, Valid Loss: 3815.2974586486816,  
Accuracy: 0.35823429541595925, Time Taken: 47.50s,  
Learning Rate: 0.0027466000000000252 -> 0.  
0027400000000000254  
1148 Fold 4/5, Epoch 201/300, Train Loss: 5.  
223928491743712, Valid Loss: 442.7917551994324,  
Accuracy: 0.39558573853989815, Time Taken: 46.97s,  
Learning Rate: 0.0027400000000000254 -> 0.  
0027334000000000256  
1149 Fold 4/5, Epoch 202/300, Train Loss: 2.  
1084286208156193, Valid Loss: 2050.8097915649414,  
Accuracy: 0.35823429541595925, Time Taken: 46.70s,  
Learning Rate: 0.0027334000000000256 -> 0.  
0027268000000000253  
1150 Fold 4/5, Epoch 203/300, Train Loss: 1.  
1886910436881255, Valid Loss: 250.31589937210083,  
Accuracy: 0.432937181663837, Time Taken: 46.24s,  
Learning Rate: 0.0027268000000000253 -> 0.  
002720200000000025  
1151 Fold 4/5, Epoch 204/300, Train Loss: 1.  
1016975933481223, Valid Loss: 1983.1120567321777,  
Accuracy: 0.2920203735144312, Time Taken: 46.53s,  
Learning Rate: 0.002720200000000025 -> 0.  
002713600000000025  
1152 Fold 4/5, Epoch 205/300, Train Loss: 1.  
8404153224913422, Valid Loss: 1982.6675415039062,
```

1152 Accuracy: 0.28522920203735147, Time Taken: 46.79s,
Learning Rate: 0.002713600000000025 -> 0.
002707000000000025

1153 Fold 4/5, Epoch 206/300, Train Loss: 2.
3629980740072796, Valid Loss: 1646.5947494506836,
Accuracy: 0.35823429541595925, Time Taken: 47.24s,
Learning Rate: 0.002707000000000025 -> 0.
0027004000000000247

1154 Fold 4/5, Epoch 207/300, Train Loss: 1.
7060602206105377, Valid Loss: 1524.108112335205,
Accuracy: 0.2835314091680815, Time Taken: 47.44s,
Learning Rate: 0.0027004000000000247 -> 0.
0026938000000000244

1155 Fold 4/5, Epoch 208/300, Train Loss: 2.
5390300124360428, Valid Loss: 588.9442262649536,
Accuracy: 0.4159592529711375, Time Taken: 47.02s,
Learning Rate: 0.0026938000000000244 -> 0.
0026872000000000246

1156 Fold 4/5, Epoch 209/300, Train Loss: 1.
4252441082649083, Valid Loss: 71.8322161398828,
Accuracy: 0.7572156196943973, Time Taken: 46.50s,
Learning Rate: 0.0026872000000000246 -> 0.
0026806000000000247

1157 Fold 4/5, Epoch 210/300, Train Loss: 1.
7800478932633643, Valid Loss: 2518.2975578308105,
Accuracy: 0.35823429541595925, Time Taken: 46.33s,
Learning Rate: 0.0026806000000000247 -> 0.
002674000000000025

1158 Fold 4/5, Epoch 211/300, Train Loss: 3.
499340169646712, Valid Loss: 23055.298431396484,
Accuracy: 0.2835314091680815, Time Taken: 46.28s,
Learning Rate: 0.002674000000000025 -> 0.
002667400000000025

1159 Fold 4/5, Epoch 212/300, Train Loss: 2.
024663926916566, Valid Loss: 1406.7235069274902,
Accuracy: 0.3599320882852292, Time Taken: 46.24s,
Learning Rate: 0.002667400000000025 -> 0.
002660800000000025

1160 Fold 4/5, Epoch 213/300, Train Loss: 1.
1977448431462205, Valid Loss: 3476.764881134033,
Accuracy: 0.35823429541595925, Time Taken: 46.69s,

```
1160 Learning Rate: 0.002660800000000025 -> 0.  
0026542000000000254  
1161 Fold 4/5, Epoch 214/300, Train Loss: 2.  
197514555472271, Valid Loss: 1951.2711791992188,  
Accuracy: 0.35823429541595925, Time Taken: 47.51s,  
Learning Rate: 0.0026542000000000254 -> 0.  
002647600000000025  
1162 Fold 4/5, Epoch 215/300, Train Loss: 6.  
945168936459788, Valid Loss: 12960.110534667969,  
Accuracy: 0.35823429541595925, Time Taken: 47.03s,  
Learning Rate: 0.002647600000000025 -> 0.  
002641000000000025  
1163 Fold 4/5, Epoch 216/300, Train Loss: 3.  
289490624916046, Valid Loss: 2841.6567726135254,  
Accuracy: 0.35823429541595925, Time Taken: 47.41s,  
Learning Rate: 0.002641000000000025 -> 0.  
002634400000000025  
1164 Fold 4/5, Epoch 217/300, Train Loss: 4.  
583804679001893, Valid Loss: 12723.106903076172,  
Accuracy: 0.35823429541595925, Time Taken: 46.72s,  
Learning Rate: 0.002634400000000025 -> 0.  
002627800000000025  
1165 Fold 4/5, Epoch 218/300, Train Loss: 4.  
858242537224494, Valid Loss: 11487.665008544922,  
Accuracy: 0.5874363327674024, Time Taken: 45.99s,  
Learning Rate: 0.002627800000000025 -> 0.  
002621200000000025  
1166 Fold 4/5, Epoch 219/300, Train Loss: 1.  
2972270879979195, Valid Loss: 5676.805351257324,  
Accuracy: 0.2835314091680815, Time Taken: 46.30s,  
Learning Rate: 0.002621200000000025 -> 0.  
002614600000000025  
1167 Fold 4/5, Epoch 220/300, Train Loss: 2.  
489335054169887, Valid Loss: 504.05107259750366,  
Accuracy: 0.7011884550084889, Time Taken: 47.03s,  
Learning Rate: 0.002614600000000025 -> 0.  
002608000000000025  
1168 Fold 4/5, Epoch 221/300, Train Loss: 0.  
7699360193790632, Valid Loss: 5596.907890319824,  
Accuracy: 0.35823429541595925, Time Taken: 47.01s,  
Learning Rate: 0.002608000000000025 -> 0.
```

```
1168 002601400000000025
1169 Fold 4/5, Epoch 222/300, Train Loss: 6.
228321252712901, Valid Loss: 6835.167572021484,
Accuracy: 0.35823429541595925, Time Taken: 46.90s,
Learning Rate: 0.002601400000000025 -> 0.
0025948000000000247
1170 Fold 4/5, Epoch 223/300, Train Loss: 6.
264504908913423, Valid Loss: 6875.160682678223,
Accuracy: 0.35823429541595925, Time Taken: 47.24s,
Learning Rate: 0.0025948000000000247 -> 0.
0025882000000000244
1171 Fold 4/5, Epoch 224/300, Train Loss: 2.
6155863853904497, Valid Loss: 2773.0664501190186,
Accuracy: 0.35823429541595925, Time Taken: 46.05s,
Learning Rate: 0.0025882000000000244 -> 0.
002581600000000024
1172 Fold 4/5, Epoch 225/300, Train Loss: 3.
193528842580651, Valid Loss: 2572.6816177368164,
Accuracy: 0.35823429541595925, Time Taken: 46.31s,
Learning Rate: 0.002581600000000024 -> 0.
0025750000000000243
1173 Fold 4/5, Epoch 226/300, Train Loss: 2.
7587324399018582, Valid Loss: 1075.3775310516357,
Accuracy: 0.3599320882852292, Time Taken: 46.27s,
Learning Rate: 0.0025750000000000243 -> 0.
0025684000000000245
1174 Fold 4/5, Epoch 227/300, Train Loss: 3.
8732676908308328, Valid Loss: 524.2047061920166,
Accuracy: 0.7181663837011885, Time Taken: 46.97s,
Learning Rate: 0.0025684000000000245 -> 0.
002561800000000024
1175 Fold 4/5, Epoch 228/300, Train Loss: 2.
907481648633877, Valid Loss: 724.8982381820679,
Accuracy: 0.3938879456706282, Time Taken: 47.10s,
Learning Rate: 0.002561800000000024 -> 0.
002555200000000024
1176 Fold 4/5, Epoch 229/300, Train Loss: 1.
359233443266211, Valid Loss: 1712.620273590088,
Accuracy: 0.35823429541595925, Time Taken: 47.00s,
Learning Rate: 0.002555200000000024 -> 0.
0025486000000000237
```

1177 Fold 4/5, Epoch 230/300, Train Loss: 2.
2979156220198265, Valid Loss: 8569.068183898926,
Accuracy: 0.40237691001697795, Time Taken: 47.30s,
Learning Rate: 0.0025486000000000237 -> 0.
0025420000000000234

1178 Fold 4/5, Epoch 231/300, Train Loss: 1.
5518104965841903, Valid Loss: 493.82281589508057,
Accuracy: 0.36502546689303905, Time Taken: 46.42s,
Learning Rate: 0.0025420000000000234 -> 0.
0025354000000000236

1179 Fold 4/5, Epoch 232/300, Train Loss: 1.
5440335117523638, Valid Loss: 1736.2995872497559,
Accuracy: 0.2835314091680815, Time Taken: 46.45s,
Learning Rate: 0.0025354000000000236 -> 0.
0025288000000000237

1180 Fold 4/5, Epoch 233/300, Train Loss: 0.
530344042643061, Valid Loss: 693.6942434310913,
Accuracy: 0.44142614601018676, Time Taken: 46.11s,
Learning Rate: 0.0025288000000000237 -> 0.
0025222000000000235

1181 Fold 4/5, Epoch 234/300, Train Loss: 2.
055820386650952, Valid Loss: 4495.960540771484,
Accuracy: 0.35823429541595925, Time Taken: 47.09s,
Learning Rate: 0.0025222000000000235 -> 0.
002515600000000023

1182 Fold 4/5, Epoch 235/300, Train Loss: 1.
45207610536289, Valid Loss: 3.7833629178826413,
Accuracy: 0.9711375212224108, Time Taken: 46.92s,
Learning Rate: 0.002515600000000023 -> 0.
0025090000000000234

1183 Fold 4/5, Epoch 236/300, Train Loss: 4.
648728989425619, Valid Loss: 2526.511890411377,
Accuracy: 0.35823429541595925, Time Taken: 47.65s,
Learning Rate: 0.0025090000000000234 -> 0.
002502400000000023

1184 Fold 4/5, Epoch 237/300, Train Loss: 3.
346887709418662, Valid Loss: 830.5801067352295,
Accuracy: 0.37860780984719866, Time Taken: 47.16s,
Learning Rate: 0.002502400000000023 -> 0.
002495800000000023

1185 Fold 4/5, Epoch 238/300, Train Loss: 4.

1185 281416625656941, Valid Loss: 6997.749214172363,
Accuracy: 0.35823429541595925, Time Taken: 46.23s,
Learning Rate: 0.002495800000000023 -> 0.
002489200000000023

1186 Fold 4/5, Epoch 239/300, Train Loss: 1.
5349362606109933, Valid Loss: 758.6264715194702,
Accuracy: 0.3633276740237691, Time Taken: 46.14s,
Learning Rate: 0.002489200000000023 -> 0.
002482600000000023

1187 Fold 4/5, Epoch 240/300, Train Loss: 2.
532853702672832, Valid Loss: 8501.209869384766,
Accuracy: 0.2835314091680815, Time Taken: 46.20s,
Learning Rate: 0.002482600000000023 -> 0.
002476000000000023

1188 Fold 4/5, Epoch 241/300, Train Loss: 0.
9257163672746351, Valid Loss: 2262.736747741699,
Accuracy: 0.2903225806451613, Time Taken: 46.62s,
Learning Rate: 0.002476000000000023 -> 0.
0024694000000000226

1189 Fold 4/5, Epoch 242/300, Train Loss: 2.
0950517933756645, Valid Loss: 7741.473770141602,
Accuracy: 0.35823429541595925, Time Taken: 46.92s,
Learning Rate: 0.0024694000000000226 -> 0.
002462800000000023

1190 Fold 4/5, Epoch 243/300, Train Loss: 1.
443507642998755, Valid Loss: 3935.3634033203125,
Accuracy: 0.35823429541595925, Time Taken: 47.35s,
Learning Rate: 0.002462800000000023 -> 0.
002456200000000023

1191 Fold 4/5, Epoch 244/300, Train Loss: 0.
7915768474177787, Valid Loss: 738.7451362609863,
Accuracy: 0.366723259762309, Time Taken: 47.51s,
Learning Rate: 0.002456200000000023 -> 0.
0024496000000000227

1192 Fold 4/5, Epoch 245/300, Train Loss: 1.
659025386856384, Valid Loss: 1041.931336402893,
Accuracy: 0.4074702886247878, Time Taken: 46.66s,
Learning Rate: 0.0024496000000000227 -> 0.
002443000000000023

1193 Fold 4/5, Epoch 246/300, Train Loss: 2.
150433650281993, Valid Loss: 1582.914077758789,

```
1193 Accuracy: 0.35823429541595925, Time Taken: 46.40s,  
Learning Rate: 0.002443000000000023 -> 0.  
0024364000000000226  
1194 Fold 4/5, Epoch 247/300, Train Loss: 2.  
7403053421571393, Valid Loss: 237.3986394405365,  
Accuracy: 0.634974533106961, Time Taken: 46.52s,  
Learning Rate: 0.0024364000000000226 -> 0.  
0024298000000000227  
1195 Fold 4/5, Epoch 248/300, Train Loss: 1.  
629874660191664, Valid Loss: 1179.6514883041382,  
Accuracy: 0.28522920203735147, Time Taken: 46.77s,  
Learning Rate: 0.0024298000000000227 -> 0.  
002423200000000023  
1196 Fold 4/5, Epoch 249/300, Train Loss: 3.  
9658119698137995, Valid Loss: 4393.25390625,  
Accuracy: 0.35823429541595925, Time Taken: 46.76s,  
Learning Rate: 0.002423200000000023 -> 0.  
0024166000000000226  
1197 Fold 4/5, Epoch 250/300, Train Loss: 4.  
928346943068203, Valid Loss: 134.35759186872747,  
Accuracy: 0.6977928692699491, Time Taken: 48.75s,  
Learning Rate: 0.0024166000000000226 -> 0.  
002410000000000023  
1198 Fold 4/5, Epoch 251/300, Train Loss: 2.  
5657693510297044, Valid Loss: 798.5205364227295,  
Accuracy: 0.5280135823429541, Time Taken: 48.64s,  
Learning Rate: 0.002410000000000023 -> 0.  
0024034000000000225  
1199 Fold 4/5, Epoch 252/300, Train Loss: 2.  
138758465065324, Valid Loss: 861.8071269989014,  
Accuracy: 0.34295415959252973, Time Taken: 46.47s,  
Learning Rate: 0.0024034000000000225 -> 0.  
0023968000000000227  
1200 Fold 4/5, Epoch 253/300, Train Loss: 1.  
770176313220249, Valid Loss: 2278.7184143066406,  
Accuracy: 0.35823429541595925, Time Taken: 46.35s,  
Learning Rate: 0.0023968000000000227 -> 0.  
002390200000000023  
1201 Fold 4/5, Epoch 254/300, Train Loss: 1.  
8855751644433223, Valid Loss: 92.09647887945175,  
Accuracy: 0.7113752122241087, Time Taken: 46.47s,
```

```
1201 Learning Rate: 0.00239020000000023 -> 0.  
0023836000000000226  
1202 Fold 4/5, Epoch 255/300, Train Loss: 2.  
6400863846383604, Valid Loss: 5944.509651184082,  
Accuracy: 0.2835314091680815, Time Taken: 46.47s,  
Learning Rate: 0.0023836000000000226 -> 0.  
0023770000000000228  
1203 Fold 4/5, Epoch 256/300, Train Loss: 2.  
2822036538745962, Valid Loss: 409.30455684661865,  
Accuracy: 0.49575551782682514, Time Taken: 47.32s,  
Learning Rate: 0.0023770000000000228 -> 0.  
0023704000000000225  
1204 Fold 4/5, Epoch 257/300, Train Loss: 1.  
0463354439213974, Valid Loss: 175.87192511558533,  
Accuracy: 0.6570458404074703, Time Taken: 47.00s,  
Learning Rate: 0.0023704000000000225 -> 0.  
0023638000000000222  
1205 Fold 4/5, Epoch 258/300, Train Loss: 3.  
467958168953423, Valid Loss: 8598.008865356445,  
Accuracy: 0.2835314091680815, Time Taken: 47.26s,  
Learning Rate: 0.0023638000000000222 -> 0.  
002357200000000022  
1206 Fold 4/5, Epoch 259/300, Train Loss: 3.  
7701533349427407, Valid Loss: 942.6981182098389,  
Accuracy: 0.3701188455008489, Time Taken: 47.25s,  
Learning Rate: 0.002357200000000022 -> 0.  
0023506000000000217  
1207 Fold 4/5, Epoch 260/300, Train Loss: 1.  
204911824965718, Valid Loss: 578.4793682098389,  
Accuracy: 0.38879456706281834, Time Taken: 46.38s,  
Learning Rate: 0.0023506000000000217 -> 0.  
0023440000000000214  
1208 Fold 4/5, Epoch 261/300, Train Loss: 1.  
9919252889326007, Valid Loss: 3292.194007873535,  
Accuracy: 0.2835314091680815, Time Taken: 46.45s,  
Learning Rate: 0.0023440000000000214 -> 0.  
002337400000000021  
1209 Fold 4/5, Epoch 262/300, Train Loss: 3.  
4371836379237806, Valid Loss: 5590.112350463867,  
Accuracy: 0.35823429541595925, Time Taken: 46.23s,  
Learning Rate: 0.002337400000000021 -> 0.
```

```
1209 0023308000000000213
1210 Fold 4/5, Epoch 263/300, Train Loss: 2.
    038629133183301, Valid Loss: 3348.743179321289,
    Accuracy: 0.35823429541595925, Time Taken: 46.87s,
    Learning Rate: 0.0023308000000000213 -> 0.
    002324200000000021
1211 Fold 4/5, Epoch 264/300, Train Loss: 1.
    3745409439707936, Valid Loss: 2022.7281799316406,
    Accuracy: 0.35823429541595925, Time Taken: 47.61s,
    Learning Rate: 0.002324200000000021 -> 0.
    0023176000000000208
1212 Fold 4/5, Epoch 265/300, Train Loss: 3.
    001012901173463, Valid Loss: 375.38791275024414,
    Accuracy: 0.6383701188455009, Time Taken: 47.51s,
    Learning Rate: 0.0023176000000000208 -> 0.
    0023110000000000205
1213 Fold 4/5, Epoch 266/300, Train Loss: 1.
    454091547757967, Valid Loss: 2276.0551414489746,
    Accuracy: 0.3735144312393888, Time Taken: 47.38s,
    Learning Rate: 0.0023110000000000205 -> 0.
    0023044000000000207
1214 Fold 4/5, Epoch 267/300, Train Loss: 0.
    9913637312153609, Valid Loss: 1234.5307216644287,
    Accuracy: 0.38879456706281834, Time Taken: 46.34s,
    Learning Rate: 0.0023044000000000207 -> 0.
    002297800000000021
1215 Fold 4/5, Epoch 268/300, Train Loss: 1.
    1169085186976346, Valid Loss: 308.5498151779175,
    Accuracy: 0.6264855687606112, Time Taken: 46.01s,
    Learning Rate: 0.002297800000000021 -> 0.
    002291200000000021
1216 Fold 4/5, Epoch 269/300, Train Loss: 1.
    5320477640301267, Valid Loss: 425.53418922424316,
    Accuracy: 0.6281833616298812, Time Taken: 46.33s,
    Learning Rate: 0.002291200000000021 -> 0.
    0022846000000000207
1217 Fold 4/5, Epoch 270/300, Train Loss: 3.
    52262034046339, Valid Loss: 5316.315368652344,
    Accuracy: 0.35823429541595925, Time Taken: 46.70s,
    Learning Rate: 0.0022846000000000207 -> 0.
    002278000000000021
```

1218 Fold 4/5, Epoch 271/300, Train Loss: 1.
0666191622958126, Valid Loss: 349.1566433906555,
Accuracy: 0.5534804753820034, Time Taken: 47.55s,
Learning Rate: 0.00227800000000021 -> 0.
002271400000000021

1219 Fold 4/5, Epoch 272/300, Train Loss: 1.
1990127631945944, Valid Loss: 1079.3528690338135,
Accuracy: 0.3599320882852292, Time Taken: 47.50s,
Learning Rate: 0.00227140000000021 -> 0.
002264800000000021

1220 Fold 4/5, Epoch 273/300, Train Loss: 1.
0873531612581617, Valid Loss: 350.446683883667,
Accuracy: 0.34465195246179964, Time Taken: 47.37s,
Learning Rate: 0.00226480000000021 -> 0.
0022582000000000205

1221 Fold 4/5, Epoch 274/300, Train Loss: 2.
826575849934552, Valid Loss: 6313.652450561523,
Accuracy: 0.2835314091680815, Time Taken: 46.48s,
Learning Rate: 0.002258200000000205 -> 0.
0022516000000000207

1222 Fold 4/5, Epoch 275/300, Train Loss: 3.
122673512834589, Valid Loss: 5023.737274169922,
Accuracy: 0.35823429541595925, Time Taken: 46.06s,
Learning Rate: 0.002251600000000207 -> 0.
002245000000000021

1223 Fold 4/5, Epoch 276/300, Train Loss: 2.
544689565129203, Valid Loss: 3328.473045349121,
Accuracy: 0.38200339558573854, Time Taken: 46.64s,
Learning Rate: 0.00224500000000021 -> 0.
002238400000000021

1224 Fold 4/5, Epoch 277/300, Train Loss: 3.
3355992940368253, Valid Loss: 2627.480869293213,
Accuracy: 0.2835314091680815, Time Taken: 46.79s,
Learning Rate: 0.00223840000000021 -> 0.
002231800000000021

1225 Fold 4/5, Epoch 278/300, Train Loss: 1.
6643417131213223, Valid Loss: 1334.448886871338,
Accuracy: 0.3599320882852292, Time Taken: 47.03s,
Learning Rate: 0.00223180000000021 -> 0.
002225200000000021

1226 Fold 4/5, Epoch 279/300, Train Loss: 3.

1226 822745226724159, Valid Loss: 1455.6129837036133,
Accuracy: 0.565365025466893, Time Taken: 47.14s,
Learning Rate: 0.00222520000000021 -> 0.
002218600000000021

1227 Fold 4/5, Epoch 280/300, Train Loss: 3.
7211632448307927, Valid Loss: 1817.0236721038818,
Accuracy: 0.2835314091680815, Time Taken: 47.07s,
Learning Rate: 0.00221860000000021 -> 0.
002212000000000021

1228 Fold 4/5, Epoch 281/300, Train Loss: 3.
0431816517247023, Valid Loss: 2549.159885406494,
Accuracy: 0.565365025466893, Time Taken: 46.32s,
Learning Rate: 0.00221200000000021 -> 0.
002205400000000021

1229 Fold 4/5, Epoch 282/300, Train Loss: 2.
6653564056882866, Valid Loss: 5.5241319506133095,
Accuracy: 0.9439728353140917, Time Taken: 46.13s,
Learning Rate: 0.00220540000000021 -> 0.
002198800000000021

1230 Fold 4/5, Epoch 283/300, Train Loss: 2.
053524260141005, Valid Loss: 2249.153797149658,
Accuracy: 0.3938879456706282, Time Taken: 46.64s,
Learning Rate: 0.00219880000000021 -> 0.
0021922000000000213

1231 Fold 4/5, Epoch 284/300, Train Loss: 2.
4332702984780212, Valid Loss: 1986.7221565246582,
Accuracy: 0.35823429541595925, Time Taken: 46.79s,
Learning Rate: 0.002192200000000213 -> 0.
0021856000000000215

1232 Fold 4/5, Epoch 285/300, Train Loss: 0.
9807734005780349, Valid Loss: 0.12670443609260218,
Accuracy: 0.9966044142614601, Time Taken: 47.02s,
Learning Rate: 0.002185600000000215 -> 0.
002179000000000021

1233 Fold 4/5, Epoch 286/300, Train Loss: 0.
8176740261823037, Valid Loss: 1270.2192668914795,
Accuracy: 0.499151103565365, Time Taken: 47.06s,
Learning Rate: 0.00217900000000021 -> 0.
002172400000000021

1234 Fold 4/5, Epoch 287/300, Train Loss: 0.
8392485337792319, Valid Loss: 60.30256316065788,

```
1234 Accuracy: 0.7521222410865874, Time Taken: 47.66s,  
Learning Rate: 0.00217240000000021 -> 0.  
0021658000000000207  
1235 Fold 4/5, Epoch 288/300, Train Loss: 2.  
227246648950861, Valid Loss: 3024.958610534668,  
Accuracy: 0.2835314091680815, Time Taken: 46.34s,  
Learning Rate: 0.0021658000000000207 -> 0.  
0021592000000000204  
1236 Fold 4/5, Epoch 289/300, Train Loss: 2.  
808653116475517, Valid Loss: 605.6186094284058,  
Accuracy: 0.34295415959252973, Time Taken: 46.51s,  
Learning Rate: 0.0021592000000000204 -> 0.  
00215260000000002  
1237 Fold 4/5, Epoch 290/300, Train Loss: 3.  
451139280475588, Valid Loss: 1621.6777896881104,  
Accuracy: 0.2835314091680815, Time Taken: 46.60s,  
Learning Rate: 0.00215260000000002 -> 0.  
00214600000000002  
1238 Fold 4/5, Epoch 291/300, Train Loss: 2.  
6893804429825288, Valid Loss: 2413.422845840454,  
Accuracy: 0.40237691001697795, Time Taken: 46.95s,  
Learning Rate: 0.00214600000000002 -> 0.  
0021394000000000196  
1239 Fold 4/5, Epoch 292/300, Train Loss: 1.  
367381881362471, Valid Loss: 2453.5741386413574,  
Accuracy: 0.35823429541595925, Time Taken: 47.61s,  
Learning Rate: 0.0021394000000000196 -> 0.  
0021328000000000197  
1240 Fold 4/5, Epoch 293/300, Train Loss: 0.  
9149737595420184, Valid Loss: 0.  
00024715513208217743, Accuracy: 1.0, Time Taken: 48  
.90s, Learning Rate: 0.0021328000000000197 -> 0.  
00212620000000002  
1241 Fold 4/5, Epoch 294/300, Train Loss: 1.  
2042508648061458, Valid Loss: 427.7997958660126,  
Accuracy: 0.40407470288624786, Time Taken: 47.59s,  
Learning Rate: 0.00212620000000002 -> 0.  
0021196000000000196  
1242 Fold 4/5, Epoch 295/300, Train Loss: 1.  
9539094223662676, Valid Loss: 1945.2073860168457,  
Accuracy: 0.2835314091680815, Time Taken: 46.52s,
```

```
1242 Learning Rate: 0.0021196000000000196 -> 0.  
0021130000000000194  
1243 Fold 4/5, Epoch 296/300, Train Loss: 2.  
0734604535763763, Valid Loss: 896.9795207977295,  
Accuracy: 0.3599320882852292, Time Taken: 46.88s,  
Learning Rate: 0.0021130000000000194 -> 0.  
002106400000000019  
1244 Fold 4/5, Epoch 297/300, Train Loss: 1.  
495633034657967, Valid Loss: 3454.7891960144043,  
Accuracy: 0.28522920203735147, Time Taken: 46.38s,  
Learning Rate: 0.002106400000000019 -> 0.  
002099800000000019  
1245 Fold 4/5, Epoch 298/300, Train Loss: 1.  
9706525703406248, Valid Loss: 146.98360443115234,  
Accuracy: 0.5195246179966044, Time Taken: 46.36s,  
Learning Rate: 0.002099800000000019 -> 0.  
0020932000000000186  
1246 Fold 4/5, Epoch 299/300, Train Loss: 2.  
7189226939388975, Valid Loss: 734.1431350708008,  
Accuracy: 0.47198641765704585, Time Taken: 47.22s,  
Learning Rate: 0.0020932000000000186 -> 0.  
0020866000000000187  
1247 Fold 4/5, Epoch 300/300, Train Loss: 1.  
096787748251148, Valid Loss: 1810.245029449463,  
Accuracy: 0.35823429541595925, Time Taken: 47.09s,  
Learning Rate: 0.0020866000000000187 -> 0.  
0020800000000000185  
1248  
1249 Fold 5/5  
1250 Train dataloader: 118 batches  
1251 Valid dataloader: 30 batches  
1252  
1253 Fold 5/5, Epoch 1/300, Train Loss: 2.  
2983579447183704, Valid Loss: 1571.5623626708984,  
Accuracy: 0.28522920203735147, Time Taken: 47.67s,  
Learning Rate: 0.0020800000000000185 -> 0.  
0020734000000000186  
1254 Fold 5/5, Epoch 2/300, Train Loss: 1.  
9607856303337474, Valid Loss: 292.2955276966095,  
Accuracy: 0.4855687606112054, Time Taken: 46.75s,  
Learning Rate: 0.0020734000000000186 -> 0.
```

```
1254 0020668000000000184
1255 Fold 5/5, Epoch 3/300, Train Loss: 2.
      590739865822645, Valid Loss: 1997.714183807373,
      Accuracy: 0.35823429541595925, Time Taken: 46.39s,
      Learning Rate: 0.0020668000000000184 -> 0.
      0020602000000000185
1256 Fold 5/5, Epoch 4/300, Train Loss: 1.
      741702187386391, Valid Loss: 2933.6598052978516,
      Accuracy: 0.35823429541595925, Time Taken: 46.52s,
      Learning Rate: 0.0020602000000000185 -> 0.
      0020536000000000183
1257 Fold 5/5, Epoch 5/300, Train Loss: 2.
      1724936711423064, Valid Loss: 989.7995376586914,
      Accuracy: 0.366723259762309, Time Taken: 46.91s,
      Learning Rate: 0.0020536000000000183 -> 0.
      0020470000000000184
1258 Fold 5/5, Epoch 6/300, Train Loss: 1.
      6353209163099276, Valid Loss: 3780.324836730957,
      Accuracy: 0.2835314091680815, Time Taken: 46.82s,
      Learning Rate: 0.0020470000000000184 -> 0.
      002040400000000018
1259 Fold 5/5, Epoch 7/300, Train Loss: 2.
      059551028374444, Valid Loss: 1610.0354385375977,
      Accuracy: 0.38879456706281834, Time Taken: 47.21s,
      Learning Rate: 0.002040400000000018 -> 0.
      0020338000000000183
1260 Fold 5/5, Epoch 8/300, Train Loss: 1.
      5247592214860957, Valid Loss: 1039.4856662750244,
      Accuracy: 0.3769100169779287, Time Taken: 47.71s,
      Learning Rate: 0.0020338000000000183 -> 0.
      002027200000000018
1261 Fold 5/5, Epoch 9/300, Train Loss: 1.
      7459559021536952, Valid Loss: 2149.303768157959,
      Accuracy: 0.2835314091680815, Time Taken: 46.94s,
      Learning Rate: 0.002027200000000018 -> 0.
      0020206000000000178
1262 Fold 5/5, Epoch 10/300, Train Loss: 0.
      34161923948141837, Valid Loss: 5.468190849940584,
      Accuracy: 0.9456706281833617, Time Taken: 46.59s,
      Learning Rate: 0.0020206000000000178 -> 0.
      0020140000000000175
```

1263 Fold 5/5, Epoch 11/300, Train Loss: 2.
034949080039766, Valid Loss: 347.2813787460327,
Accuracy: 0.4091680814940577, Time Taken: 46.52s,
Learning Rate: 0.002014000000000175 -> 0.
0020074000000000177

1264 Fold 5/5, Epoch 12/300, Train Loss: 1.
6569825184331934, Valid Loss: 381.03849959373474,
Accuracy: 0.5076400679117148, Time Taken: 46.75s,
Learning Rate: 0.002007400000000177 -> 0.
002000800000000018

1265 Fold 5/5, Epoch 13/300, Train Loss: 2.
7766676582193135, Valid Loss: 725.9746980667114,
Accuracy: 0.3140916808149406, Time Taken: 46.78s,
Learning Rate: 0.00200080000000018 -> 0.
0019942000000000176

1266 Fold 5/5, Epoch 14/300, Train Loss: 1.
5667783123981822, Valid Loss: 1449.2800827026367,
Accuracy: 0.2869269949066214, Time Taken: 47.15s,
Learning Rate: 0.001994200000000176 -> 0.
0019876000000000177

1267 Fold 5/5, Epoch 15/300, Train Loss: 3.
5747246453967065, Valid Loss: 93.05313539505005,
Accuracy: 0.599320882852292, Time Taken: 47.04s,
Learning Rate: 0.001987600000000177 -> 0.
001981000000000175

1268 Fold 5/5, Epoch 16/300, Train Loss: 2.
9195706156372223, Valid Loss: 124.4023212492466,
Accuracy: 0.7860780984719864, Time Taken: 47.71s,
Learning Rate: 0.001981000000000175 -> 0.
001974400000000017

1269 Fold 5/5, Epoch 17/300, Train Loss: 2.
506513900965839, Valid Loss: 433.94537258148193,
Accuracy: 0.45161290322580644, Time Taken: 45.91s,
Learning Rate: 0.00197440000000017 -> 0.
0019678000000000174

1270 Fold 5/5, Epoch 18/300, Train Loss: 3.
4414537783310424, Valid Loss: 2580.476276397705,
Accuracy: 0.28522920203735147, Time Taken: 46.78s,
Learning Rate: 0.001967800000000174 -> 0.
0019612000000000175

1271 Fold 5/5, Epoch 19/300, Train Loss: 0.

1271 7864936640871099, Valid Loss: 0.
00012848657091169002, Accuracy: 1.0, Time Taken: 46
.88s, Learning Rate: 0.001961200000000175 -> 0.
0019546000000000177

1272 Fold 5/5, Epoch 20/300, Train Loss: 1.
3528258308407723, Valid Loss: 2235.153366088867,
Accuracy: 0.3633276740237691, Time Taken: 46.73s,
Learning Rate: 0.0019546000000000177 -> 0.
0019480000000000176

1273 Fold 5/5, Epoch 21/300, Train Loss: 1.
472521516695557, Valid Loss: 2501.4802207946777,
Accuracy: 0.6230899830220713, Time Taken: 47.47s,
Learning Rate: 0.0019480000000000176 -> 0.
0019414000000000176

1274 Fold 5/5, Epoch 22/300, Train Loss: 1.
825609717926417, Valid Loss: 1206.7205934524536,
Accuracy: 0.35823429541595925, Time Taken: 47.12s,
Learning Rate: 0.0019414000000000176 -> 0.
0019348000000000175

1275 Fold 5/5, Epoch 23/300, Train Loss: 0.
9982964025478314, Valid Loss: 4691.094772338867,
Accuracy: 0.28522920203735147, Time Taken: 47.28s,
Learning Rate: 0.0019348000000000175 -> 0.
0019282000000000175

1276 Fold 5/5, Epoch 24/300, Train Loss: 1.
7194366358427446, Valid Loss: 1285.5258827209473,
Accuracy: 0.2869269949066214, Time Taken: 46.37s,
Learning Rate: 0.0019282000000000175 -> 0.
0019216000000000174

1277 Fold 5/5, Epoch 25/300, Train Loss: 3.
8737022539220893, Valid Loss: 400.09682178497314,
Accuracy: 0.3870967741935484, Time Taken: 45.91s,
Learning Rate: 0.0019216000000000174 -> 0.
0019150000000000174

1278 Fold 5/5, Epoch 26/300, Train Loss: 1.
3853136815128737, Valid Loss: 467.04083013534546,
Accuracy: 0.6027164685908319, Time Taken: 46.21s,
Learning Rate: 0.0019150000000000174 -> 0.
0019084000000000173

1279 Fold 5/5, Epoch 27/300, Train Loss: 2.8532730715102
, Valid Loss: 3971.08935546875, Accuracy: 0.

```
1279 2835314091680815, Time Taken: 48.10s, Learning Rate  
: 0.0019084000000000173 -> 0.0019018000000000173  
1280 Fold 5/5, Epoch 28/300, Train Loss: 2.  
1418141685702246, Valid Loss: 3804.891170501709,  
Accuracy: 0.3616298811544992, Time Taken: 48.68s,  
Learning Rate: 0.0019018000000000173 -> 0.  
0018952000000000172  
1281 Fold 5/5, Epoch 29/300, Train Loss: 2.  
746280702829731, Valid Loss: 3029.6706771850586,  
Accuracy: 0.35823429541595925, Time Taken: 47.23s,  
Learning Rate: 0.0018952000000000172 -> 0.  
0018886000000000172  
1282 Fold 5/5, Epoch 30/300, Train Loss: 1.  
4233636866864527, Valid Loss: 772.5126218795776,  
Accuracy: 0.43463497453310695, Time Taken: 47.33s,  
Learning Rate: 0.0018886000000000172 -> 0.  
0018820000000000171  
1283 Fold 5/5, Epoch 31/300, Train Loss: 1.  
173452165557051, Valid Loss: 973.7300510406494,  
Accuracy: 0.4685908319185059, Time Taken: 46.31s,  
Learning Rate: 0.0018820000000000171 -> 0.  
001875400000000017  
1284 Fold 5/5, Epoch 32/300, Train Loss: 1.  
4909969800470373, Valid Loss: 3.0711238068255398,  
Accuracy: 0.9745331069609507, Time Taken: 46.84s,  
Learning Rate: 0.001875400000000017 -> 0.  
001868800000000017  
1285 Fold 5/5, Epoch 33/300, Train Loss: 2.  
4127121833858274, Valid Loss: 4428.317558288574,  
Accuracy: 0.35823429541595925, Time Taken: 46.69s,  
Learning Rate: 0.001868800000000017 -> 0.  
001862200000000017  
1286 Fold 5/5, Epoch 34/300, Train Loss: 1.  
9575273928233914, Valid Loss: 2420.4252014160156,  
Accuracy: 0.3633276740237691, Time Taken: 47.02s,  
Learning Rate: 0.001862200000000017 -> 0.  
001855600000000017  
1287 Fold 5/5, Epoch 35/300, Train Loss: 0.  
9486922329546452, Valid Loss: 149.41681361198425,  
Accuracy: 0.597623089983022, Time Taken: 47.87s,  
Learning Rate: 0.001855600000000017 -> 0.
```

```
1287 0018490000000000169
1288 Fold 5/5, Epoch 36/300, Train Loss: 1.
    4257441367346146, Valid Loss: 328.11408615112305,
    Accuracy: 0.5365025466893039, Time Taken: 47.21s,
    Learning Rate: 0.0018490000000000169 -> 0.
    0018424000000000168
1289 Fold 5/5, Epoch 37/300, Train Loss: 0.
    7815339053475627, Valid Loss: 81.80848598480225,
    Accuracy: 0.7724957555178268, Time Taken: 47.31s,
    Learning Rate: 0.0018424000000000168 -> 0.
    0018358000000000168
1290 Fold 5/5, Epoch 38/300, Train Loss: 0.
    9514986689492408, Valid Loss: 0.8195393576278462,
    Accuracy: 0.9932088285229203, Time Taken: 46.77s,
    Learning Rate: 0.0018358000000000168 -> 0.
    0018292000000000167
1291 Fold 5/5, Epoch 39/300, Train Loss: 2.
    918560117254005, Valid Loss: 306.69813346862793,
    Accuracy: 0.48047538200339557, Time Taken: 46.64s,
    Learning Rate: 0.0018292000000000167 -> 0.
    0018226000000000167
1292 Fold 5/5, Epoch 40/300, Train Loss: 1.
    6515710107266406, Valid Loss: 1487.8421020507812,
    Accuracy: 0.2937181663837012, Time Taken: 46.16s,
    Learning Rate: 0.0018226000000000167 -> 0.
    0018160000000000166
1293 Fold 5/5, Epoch 41/300, Train Loss: 2.
    2053441808851515, Valid Loss: 65.76063406467438,
    Accuracy: 0.6876061120543294, Time Taken: 47.20s,
    Learning Rate: 0.0018160000000000166 -> 0.
    0018094000000000166
1294 Fold 5/5, Epoch 42/300, Train Loss: 2.
    4720190563442674, Valid Loss: 4774.147994995117,
    Accuracy: 0.35823429541595925, Time Taken: 47.41s,
    Learning Rate: 0.0018094000000000166 -> 0.
    0018028000000000165
1295 Fold 5/5, Epoch 43/300, Train Loss: 3.
    401673444565521, Valid Loss: 1725.7360801696777,
    Accuracy: 0.35823429541595925, Time Taken: 47.29s,
    Learning Rate: 0.0018028000000000165 -> 0.
    0017962000000000164
```

1296 Fold 5/5, Epoch 44/300, Train Loss: 3.
288098208287437, Valid Loss: 439.050500869751,
Accuracy: 0.47368421052631576, Time Taken: 47.85s,
Learning Rate: 0.0017962000000000164 -> 0.
0017896000000000164

1297 Fold 5/5, Epoch 45/300, Train Loss: 1.
4489377881208165, Valid Loss: 2199.2436332702637,
Accuracy: 0.3616298811544992, Time Taken: 46.79s,
Learning Rate: 0.0017896000000000164 -> 0.
0017830000000000163

1298 Fold 5/5, Epoch 46/300, Train Loss: 3.
0545805311995764, Valid Loss: 3496.321548461914,
Accuracy: 0.35823429541595925, Time Taken: 46.36s,
Learning Rate: 0.0017830000000000163 -> 0.
0017764000000000163

1299 Fold 5/5, Epoch 47/300, Train Loss: 1.
3132174225088358, Valid Loss: 2044.4732704162598,
Accuracy: 0.4074702886247878, Time Taken: 46.50s,
Learning Rate: 0.0017764000000000163 -> 0.
0017698000000000162

1300 Fold 5/5, Epoch 48/300, Train Loss: 0.
2023672778627965, Valid Loss: 31.606701236072695,
Accuracy: 0.8471986417657046, Time Taken: 46.38s,
Learning Rate: 0.0017698000000000162 -> 0.
0017632000000000162

1301 Fold 5/5, Epoch 49/300, Train Loss: 2.
031107296639349, Valid Loss: 835.7528839111328,
Accuracy: 0.4057724957555178, Time Taken: 46.77s,
Learning Rate: 0.0017632000000000162 -> 0.
0017566000000000161

1302 Fold 5/5, Epoch 50/300, Train Loss: 2.
5993266401963098, Valid Loss: 153.88869547843933,
Accuracy: 0.6943972835314092, Time Taken: 47.17s,
Learning Rate: 0.0017566000000000161 -> 0.
001750000000000016

1303 Fold 5/5, Epoch 51/300, Train Loss: 1.
5671870622686637, Valid Loss: 516.8984985351562,
Accuracy: 0.432937181663837, Time Taken: 47.20s,
Learning Rate: 0.001750000000000016 -> 0.
001743400000000016

1304 Fold 5/5, Epoch 52/300, Train Loss: 3.

1304 6864287833216283, Valid Loss: 1766.7926597595215,
Accuracy: 0.35823429541595925, Time Taken: 46.95s,
Learning Rate: 0.001743400000000016 -> 0.
001736800000000016

1305 Fold 5/5, Epoch 53/300, Train Loss: 1.
002701350607964, Valid Loss: 106.11750507354736,
Accuracy: 0.7555178268251274, Time Taken: 46.10s,
Learning Rate: 0.001736800000000016 -> 0.
001730200000000016

1306 Fold 5/5, Epoch 54/300, Train Loss: 2.
4063140548757236, Valid Loss: 444.8248043060303,
Accuracy: 0.5246179966044142, Time Taken: 47.13s,
Learning Rate: 0.001730200000000016 -> 0.
0017236000000000159

1307 Fold 5/5, Epoch 55/300, Train Loss: 2.
2917002294144098, Valid Loss: 7002.04248046875,
Accuracy: 0.35823429541595925, Time Taken: 46.42s,
Learning Rate: 0.0017236000000000159 -> 0.
0017170000000000158

1308 Fold 5/5, Epoch 56/300, Train Loss: 1.
852490084048572, Valid Loss: 269.95460414886475,
Accuracy: 0.7249575551782682, Time Taken: 47.22s,
Learning Rate: 0.0017170000000000158 -> 0.
0017104000000000158

1309 Fold 5/5, Epoch 57/300, Train Loss: 0.
9496577875678058, Valid Loss: 60.48630154784769,
Accuracy: 0.7809847198641766, Time Taken: 47.51s,
Learning Rate: 0.0017104000000000158 -> 0.
0017038000000000157

1310 Fold 5/5, Epoch 58/300, Train Loss: 1.
0756973913449954, Valid Loss: 119.97415590286255,
Accuracy: 0.7623089983022071, Time Taken: 47.69s,
Learning Rate: 0.0017038000000000157 -> 0.
0016972000000000157

1311 Fold 5/5, Epoch 59/300, Train Loss: 1.
995953876970706, Valid Loss: 614.4195513725281,
Accuracy: 0.5110356536502547, Time Taken: 47.40s,
Learning Rate: 0.0016972000000000157 -> 0.
0016906000000000156

1312 Fold 5/5, Epoch 60/300, Train Loss: 0.
9533130507999026, Valid Loss: 1.788880979358737,

```
1312 Accuracy: 0.9762308998302207, Time Taken: 46.32s,  
Learning Rate: 0.0016906000000000156 -> 0.  
0016840000000000156  
1313 Fold 5/5, Epoch 61/300, Train Loss: 0.  
9626093980899064, Valid Loss: 764.0947761535645,  
Accuracy: 0.2869269949066214, Time Taken: 47.06s,  
Learning Rate: 0.0016840000000000156 -> 0.  
0016774000000000155  
1314 Fold 5/5, Epoch 62/300, Train Loss: 1.  
9585399632324965, Valid Loss: 913.8331995010376,  
Accuracy: 0.6078098471986417, Time Taken: 46.40s,  
Learning Rate: 0.0016774000000000155 -> 0.  
0016708000000000155  
1315 Fold 5/5, Epoch 63/300, Train Loss: 3.  
181821426958999, Valid Loss: 867.4448375701904,  
Accuracy: 0.3769100169779287, Time Taken: 46.66s,  
Learning Rate: 0.0016708000000000155 -> 0.  
0016642000000000154  
1316 Fold 5/5, Epoch 64/300, Train Loss: 1.  
5369331612718913, Valid Loss: 489.86039447784424,  
Accuracy: 0.4312393887945671, Time Taken: 47.46s,  
Learning Rate: 0.0016642000000000154 -> 0.  
0016576000000000154  
1317 Fold 5/5, Epoch 65/300, Train Loss: 3.  
1242032061951273, Valid Loss: 919.195592880249,  
Accuracy: 0.2903225806451613, Time Taken: 47.78s,  
Learning Rate: 0.0016576000000000154 -> 0.  
0016510000000000153  
1318 Fold 5/5, Epoch 66/300, Train Loss: 1.  
4255964683893474, Valid Loss: 7.580298961955123,  
Accuracy: 0.9354838709677419, Time Taken: 47.66s,  
Learning Rate: 0.0016510000000000153 -> 0.  
0016444000000000153  
1319 Fold 5/5, Epoch 67/300, Train Loss: 2.  
051579426733003, Valid Loss: 288.18175172805786,  
Accuracy: 0.6570458404074703, Time Taken: 45.92s,  
Learning Rate: 0.0016444000000000153 -> 0.  
0016378000000000152  
1320 Fold 5/5, Epoch 68/300, Train Loss: 1.  
9846465857634197, Valid Loss: 321.7378520965576,  
Accuracy: 0.7249575551782682, Time Taken: 46.53s,
```

```
1320 Learning Rate: 0.0016378000000000152 -> 0.  
0016312000000000151  
1321 Fold 5/5, Epoch 69/300, Train Loss: 1.  
8292156282186536, Valid Loss: 266.10755729675293,  
Accuracy: 0.5025466893039049, Time Taken: 46.65s,  
Learning Rate: 0.0016312000000000151 -> 0.  
001624600000000015  
1322 Fold 5/5, Epoch 70/300, Train Loss: 1.  
0090060638897498, Valid Loss: 1281.6644096374512,  
Accuracy: 0.3769100169779287, Time Taken: 47.02s,  
Learning Rate: 0.001624600000000015 -> 0.  
001618000000000015  
1323 Fold 5/5, Epoch 71/300, Train Loss: 0.  
5733445321269928, Valid Loss: 200.1259593963623,  
Accuracy: 0.5500848896434635, Time Taken: 47.08s,  
Learning Rate: 0.001618000000000015 -> 0.  
001611400000000015  
1324 Fold 5/5, Epoch 72/300, Train Loss: 0.  
8367189973994318, Valid Loss: 631.8347225189209,  
Accuracy: 0.28522920203735147, Time Taken: 47.47s,  
Learning Rate: 0.001611400000000015 -> 0.  
001604800000000015  
1325 Fold 5/5, Epoch 73/300, Train Loss: 0.  
7693813821484001, Valid Loss: 1628.5052185058594,  
Accuracy: 0.28522920203735147, Time Taken: 47.47s,  
Learning Rate: 0.001604800000000015 -> 0.  
0015982000000000149  
1326 Fold 5/5, Epoch 74/300, Train Loss: 1.  
7979459080373195, Valid Loss: 1726.9439506530762,  
Accuracy: 0.28522920203735147, Time Taken: 46.29s,  
Learning Rate: 0.0015982000000000149 -> 0.  
0015916000000000148  
1327 Fold 5/5, Epoch 75/300, Train Loss: 2.  
916074068118025, Valid Loss: 11.220769866020419,  
Accuracy: 0.9117147707979627, Time Taken: 46.49s,  
Learning Rate: 0.0015916000000000148 -> 0.  
0015850000000000148  
1328 Fold 5/5, Epoch 76/300, Train Loss: 0.  
9445813275975192, Valid Loss: 266.451132774353,  
Accuracy: 0.6078098471986417, Time Taken: 46.17s,  
Learning Rate: 0.0015850000000000148 -> 0.
```

```
1328 0015784000000000147
1329 Fold 5/5, Epoch 77/300, Train Loss: 2.
    056264146632664, Valid Loss: 257.0226755142212,
    Accuracy: 0.735144312393888, Time Taken: 46.61s,
    Learning Rate: 0.0015784000000000147 -> 0.
    0015718000000000147
1330 Fold 5/5, Epoch 78/300, Train Loss: 2.
    2530627182096783, Valid Loss: 26.553903644684596,
    Accuracy: 0.8641765704584041, Time Taken: 47.31s,
    Learning Rate: 0.0015718000000000147 -> 0.
    0015652000000000146
1331 Fold 5/5, Epoch 79/300, Train Loss: 0.
    4139747529786302, Valid Loss: 2.1286907092453475,
    Accuracy: 0.9711375212224108, Time Taken: 47.17s,
    Learning Rate: 0.0015652000000000146 -> 0.
    0015586000000000146
1332 Fold 5/5, Epoch 80/300, Train Loss: 3.
    304097536690829, Valid Loss: 391.0025968551636,
    Accuracy: 0.43463497453310695, Time Taken: 47.10s,
    Learning Rate: 0.0015586000000000146 -> 0.
    0015520000000000145
1333 Fold 5/5, Epoch 81/300, Train Loss: 1.
    669424536786872, Valid Loss: 179.58665192127228,
    Accuracy: 0.7589134125636672, Time Taken: 47.40s,
    Learning Rate: 0.0015520000000000145 -> 0.
    0015454000000000145
1334 Fold 5/5, Epoch 82/300, Train Loss: 2.
    237301222283641, Valid Loss: 1530.0763815045357,
    Accuracy: 0.5398981324278438, Time Taken: 46.63s,
    Learning Rate: 0.0015454000000000145 -> 0.
    0015388000000000144
1335 Fold 5/5, Epoch 83/300, Train Loss: 1.
    605014688402015, Valid Loss: 335.8319387435913,
    Accuracy: 0.5093378607809848, Time Taken: 46.45s,
    Learning Rate: 0.0015388000000000144 -> 0.
    0015322000000000144
1336 Fold 5/5, Epoch 84/300, Train Loss: 0.
    8469779195516134, Valid Loss: 28.062520034611225,
    Accuracy: 0.7962648556876061, Time Taken: 46.74s,
    Learning Rate: 0.0015322000000000144 -> 0.
    0015256000000000143
```

1337 Fold 5/5, Epoch 85/300, Train Loss: 2.
144695374820663, Valid Loss: 1548.405128479004,
Accuracy: 0.37181663837011886, Time Taken: 47.35s,
Learning Rate: 0.0015256000000000143 -> 0.
0015190000000000143

1338 Fold 5/5, Epoch 86/300, Train Loss: 1.
909481065502865, Valid Loss: 1735.2132511138916,
Accuracy: 0.30390492359932086, Time Taken: 47.59s,
Learning Rate: 0.0015190000000000143 -> 0.
0015124000000000142

1339 Fold 5/5, Epoch 87/300, Train Loss: 1.
3753314553823293, Valid Loss: 1061.1503324508667,
Accuracy: 0.37860780984719866, Time Taken: 47.50s,
Learning Rate: 0.0015124000000000142 -> 0.
0015058000000000142

1340 Fold 5/5, Epoch 88/300, Train Loss: 1.
1345260153606747, Valid Loss: 4.762342465723464,
Accuracy: 0.9507640067911715, Time Taken: 47.03s,
Learning Rate: 0.0015058000000000142 -> 0.
001499200000000014

1341 Fold 5/5, Epoch 89/300, Train Loss: 0.
3933619628647218, Valid Loss: 2.721940273068128,
Accuracy: 0.969439728353141, Time Taken: 46.61s,
Learning Rate: 0.001499200000000014 -> 0.
001492600000000014

1342 Fold 5/5, Epoch 90/300, Train Loss: 1.
3509748607111156, Valid Loss: 139.57345277071,
Accuracy: 0.6536502546689303, Time Taken: 47.03s,
Learning Rate: 0.001492600000000014 -> 0.
001486000000000014

1343 Fold 5/5, Epoch 91/300, Train Loss: 0.
599642863847226, Valid Loss: 1582.8606204986572,
Accuracy: 0.3701188455008489, Time Taken: 46.83s,
Learning Rate: 0.001486000000000014 -> 0.
001479400000000014

1344 Fold 5/5, Epoch 92/300, Train Loss: 0.
8485596522293797, Valid Loss: 375.9201354980469,
Accuracy: 0.41086587436332767, Time Taken: 46.97s,
Learning Rate: 0.001479400000000014 -> 0.
001472800000000014

1345 Fold 5/5, Epoch 93/300, Train Loss: 1.

1345 0105486009669367, Valid Loss: 2332.4355964660645,
Accuracy: 0.35823429541595925, Time Taken: 47.30s,
Learning Rate: 0.00147280000000014 -> 0.
0014662000000000138

1346 Fold 5/5, Epoch 94/300, Train Loss: 0.
8133791033083924, Valid Loss: 27.338906687684357,
Accuracy: 0.8505942275042445, Time Taken: 47.97s,
Learning Rate: 0.001466200000000138 -> 0.
0014596000000000138

1347 Fold 5/5, Epoch 95/300, Train Loss: 1.
6437054707298087, Valid Loss: 2098.062442779541,
Accuracy: 0.6230899830220713, Time Taken: 47.35s,
Learning Rate: 0.001459600000000138 -> 0.
0014530000000000137

1348 Fold 5/5, Epoch 96/300, Train Loss: 0.
895916900250799, Valid Loss: 253.90245270729065,
Accuracy: 0.6434634974533107, Time Taken: 45.96s,
Learning Rate: 0.001453000000000137 -> 0.
0014464000000000137

1349 Fold 5/5, Epoch 97/300, Train Loss: 2.
3579935072657907, Valid Loss: 2692.857032775879,
Accuracy: 0.3633276740237691, Time Taken: 46.12s,
Learning Rate: 0.001446400000000137 -> 0.
0014398000000000136

1350 Fold 5/5, Epoch 98/300, Train Loss: 1.
467530207054181, Valid Loss: 1849.717700958252,
Accuracy: 0.4465195246179966, Time Taken: 46.70s,
Learning Rate: 0.001439800000000136 -> 0.
0014332000000000136

1351 Fold 5/5, Epoch 99/300, Train Loss: 1.
700071990397407, Valid Loss: 1844.4149532318115,
Accuracy: 0.4770797962648557, Time Taken: 47.32s,
Learning Rate: 0.001433200000000136 -> 0.
0014266000000000135

1352 Fold 5/5, Epoch 100/300, Train Loss: 1.
329278655196152, Valid Loss: 670.4789323806763,
Accuracy: 0.34465195246179964, Time Taken: 47.10s,
Learning Rate: 0.001426600000000135 -> 0.
0014200000000000135

1353 Fold 5/5, Epoch 101/300, Train Loss: 2.
6518104255551984, Valid Loss: 4405.046855926514,

```
1353 Accuracy: 0.2835314091680815, Time Taken: 47.53s,  
Learning Rate: 0.001420000000000135 -> 0.  
0014134000000000134  
1354 Fold 5/5, Epoch 102/300, Train Loss: 2.  
1372786915545507, Valid Loss: 364.15403842926025,  
Accuracy: 0.3378607809847199, Time Taken: 47.80s,  
Learning Rate: 0.0014134000000000134 -> 0.  
0014068000000000134  
1355 Fold 5/5, Epoch 103/300, Train Loss: 1.  
6355595995931367, Valid Loss: 140.96505272388458,  
Accuracy: 0.6842105263157895, Time Taken: 48.02s,  
Learning Rate: 0.0014068000000000134 -> 0.  
0014002000000000133  
1356 Fold 5/5, Epoch 104/300, Train Loss: 0.  
7825057914804496, Valid Loss: 708.3992338180542,  
Accuracy: 0.4074702886247878, Time Taken: 50.66s,  
Learning Rate: 0.0014002000000000133 -> 0.  
0013936000000000133  
1357 Fold 5/5, Epoch 105/300, Train Loss: 0.  
6717795514296556, Valid Loss: 282.9049023389816,  
Accuracy: 0.7419354838709677, Time Taken: 47.02s,  
Learning Rate: 0.0013936000000000133 -> 0.  
0013870000000000132  
1358 Fold 5/5, Epoch 106/300, Train Loss: 0.  
7955604067384963, Valid Loss: 1.4012483109314289,  
Accuracy: 0.9813242784380306, Time Taken: 48.86s,  
Learning Rate: 0.0013870000000000132 -> 0.  
0013804000000000132  
1359 Fold 5/5, Epoch 107/300, Train Loss: 1.  
2264086840190505, Valid Loss: 1123.9612770080566,  
Accuracy: 0.28522920203735147, Time Taken: 47.43s,  
Learning Rate: 0.0013804000000000132 -> 0.  
0013738000000000131  
1360 Fold 5/5, Epoch 108/300, Train Loss: 2.  
2548487763354395, Valid Loss: 1315.2824783325195,  
Accuracy: 0.31239388794567063, Time Taken: 47.70s,  
Learning Rate: 0.0013738000000000131 -> 0.  
001367200000000013  
1361 Fold 5/5, Epoch 109/300, Train Loss: 2.  
475535357912417, Valid Loss: 1777.3667488098145,  
Accuracy: 0.3684210526315789, Time Taken: 48.27s,
```

```
1361 Learning Rate: 0.001367200000000013 -> 0.  
001360600000000013  
1362 Fold 5/5, Epoch 110/300, Train Loss: 0.  
8973377394663782, Valid Loss: 742.1638555526733,  
Accuracy: 0.3853989813242784, Time Taken: 47.00s,  
Learning Rate: 0.001360600000000013 -> 0.  
001354000000000013  
1363 Fold 5/5, Epoch 111/300, Train Loss: 0.  
792963728034711, Valid Loss: 773.1914434432983,  
Accuracy: 0.37521222410865873, Time Taken: 47.20s,  
Learning Rate: 0.001354000000000013 -> 0.  
001347400000000013  
1364 Fold 5/5, Epoch 112/300, Train Loss: 2.  
0223312496914243, Valid Loss: 4622.463020324707,  
Accuracy: 0.2835314091680815, Time Taken: 47.67s,  
Learning Rate: 0.001347400000000013 -> 0.  
0013408000000000129  
1365 Fold 5/5, Epoch 113/300, Train Loss: 1.  
7718743722347163, Valid Loss: 751.7572927474976,  
Accuracy: 0.41935483870967744, Time Taken: 48.10s,  
Learning Rate: 0.0013408000000000129 -> 0.  
0013342000000000128  
1366 Fold 5/5, Epoch 114/300, Train Loss: 1.  
8044393545510111, Valid Loss: 2260.2157402038574,  
Accuracy: 0.35823429541595925, Time Taken: 48.72s,  
Learning Rate: 0.0013342000000000128 -> 0.  
0013276000000000128  
1367 Fold 5/5, Epoch 115/300, Train Loss: 2.  
0220938144431804, Valid Loss: 170.63439679145813,  
Accuracy: 0.7538200339558574, Time Taken: 49.38s,  
Learning Rate: 0.0013276000000000128 -> 0.  
0013210000000000127  
1368 Fold 5/5, Epoch 116/300, Train Loss: 1.  
1537102863121431, Valid Loss: 466.3410382270813,  
Accuracy: 0.5144312393887945, Time Taken: 48.19s,  
Learning Rate: 0.0013210000000000127 -> 0.  
0013144000000000127  
1369 Fold 5/5, Epoch 117/300, Train Loss: 2.  
254639556939866, Valid Loss: 3759.3812255859375,  
Accuracy: 0.35823429541595925, Time Taken: 52.18s,  
Learning Rate: 0.0013144000000000127 -> 0.
```

1369 0013078000000000126
1370 Fold 5/5, Epoch 118/300, Train Loss: 0.
4512321183606609, Valid Loss: 317.0082552433014,
Accuracy: 0.6604414261460102, Time Taken: 49.91s,
Learning Rate: 0.0013078000000000126 -> 0.
0013012000000000125
1371 Fold 5/5, Epoch 119/300, Train Loss: 0.
6023889093859509, Valid Loss: 0.02021161208972444,
Accuracy: 1.0, Time Taken: 46.66s, Learning Rate: 0
.0013012000000000125 -> 0.0012946000000000125
1372 Fold 5/5, Epoch 120/300, Train Loss: 0.
49115922416305846, Valid Loss: 845.8404722213745,
Accuracy: 0.40237691001697795, Time Taken: 47.46s,
Learning Rate: 0.0012946000000000125 -> 0.
0012880000000000124
1373 Fold 5/5, Epoch 121/300, Train Loss: 1.
064045560451957, Valid Loss: 2307.3278045654297,
Accuracy: 0.2835314091680815, Time Taken: 47.15s,
Learning Rate: 0.0012880000000000124 -> 0.
0012814000000000124
1374 Fold 5/5, Epoch 122/300, Train Loss: 0.
8055056121151107, Valid Loss: 2264.351795196533,
Accuracy: 0.2835314091680815, Time Taken: 47.83s,
Learning Rate: 0.0012814000000000124 -> 0.
0012748000000000123
1375 Fold 5/5, Epoch 123/300, Train Loss: 1.
7324213316484869, Valid Loss: 63.4677557349205,
Accuracy: 0.7640067911714771, Time Taken: 47.41s,
Learning Rate: 0.0012748000000000123 -> 0.
0012682000000000123
1376 Fold 5/5, Epoch 124/300, Train Loss: 1.
4549759786706487, Valid Loss: 192.47989869117737,
Accuracy: 0.6417657045840407, Time Taken: 46.37s,
Learning Rate: 0.0012682000000000123 -> 0.
0012616000000000122
1377 Fold 5/5, Epoch 125/300, Train Loss: 0.
9884780377591049, Valid Loss: 448.87000608444214,
Accuracy: 0.41086587436332767, Time Taken: 46.17s,
Learning Rate: 0.0012616000000000122 -> 0.
0012550000000000122
1378 Fold 5/5, Epoch 126/300, Train Loss: 1.

1378 212483882743868, Valid Loss: 3.2948419077774815,
Accuracy: 0.9711375212224108, Time Taken: 46.51s,
Learning Rate: 0.001255000000000122 -> 0.
0012484000000000121

1379 Fold 5/5, Epoch 127/300, Train Loss: 0.
4912736892860057, Valid Loss: 0.002595070860181181
, Accuracy: 1.0, Time Taken: 47.17s, Learning Rate
: 0.001248400000000121 -> 0.001241800000000012

1380 Fold 5/5, Epoch 128/300, Train Loss: 1.
473484564860419, Valid Loss: 0.3090304801135062,
Accuracy: 0.9949066213921901, Time Taken: 47.34s,
Learning Rate: 0.00124180000000012 -> 0.
001235200000000012

1381 Fold 5/5, Epoch 129/300, Train Loss: 2.
6715516780259874, Valid Loss: 1914.1650848388672,
Accuracy: 0.35823429541595925, Time Taken: 47.28s,
Learning Rate: 0.00123520000000012 -> 0.
001228600000000012

1382 Fold 5/5, Epoch 130/300, Train Loss: 2.
150727196018316, Valid Loss: 643.6261157989502,
Accuracy: 0.398981324278438, Time Taken: 47.57s,
Learning Rate: 0.00122860000000012 -> 0.
001222000000000012

1383 Fold 5/5, Epoch 131/300, Train Loss: 1.
0912265787722184, Valid Loss: 465.5023250579834,
Accuracy: 0.5008488964346349, Time Taken: 47.25s,
Learning Rate: 0.00122200000000012 -> 0.
0012154000000000119

1384 Fold 5/5, Epoch 132/300, Train Loss: 1.
0183143810908541, Valid Loss: 406.3307237625122,
Accuracy: 0.4634974533106961, Time Taken: 46.04s,
Learning Rate: 0.001215400000000119 -> 0.
0012088000000000118

1385 Fold 5/5, Epoch 133/300, Train Loss: 0.
7917601228859983, Valid Loss: 192.9580659866333,
Accuracy: 0.4634974533106961, Time Taken: 46.18s,
Learning Rate: 0.0012088000000000118 -> 0.
0012022000000000118

1386 Fold 5/5, Epoch 134/300, Train Loss: 2.
409747797365257, Valid Loss: 1428.36763381958,
Accuracy: 0.466893039049236, Time Taken: 46.48s,

```
1386 Learning Rate: 0.0012022000000000118 -> 0.  
0011956000000000117  
1387 Fold 5/5, Epoch 135/300, Train Loss: 1.  
1501568426687552, Valid Loss: 81.51762926578522,  
Accuracy: 0.6926994906621392, Time Taken: 47.46s,  
Learning Rate: 0.0011956000000000117 -> 0.  
0011890000000000117  
1388 Fold 5/5, Epoch 136/300, Train Loss: 1.  
4259669602600678, Valid Loss: 268.7733552455902,  
Accuracy: 0.47877758913412566, Time Taken: 47.18s,  
Learning Rate: 0.0011890000000000117 -> 0.  
0011824000000000116  
1389 Fold 5/5, Epoch 137/300, Train Loss: 0.  
7002061721465278, Valid Loss: 353.7204213142395,  
Accuracy: 0.6230899830220713, Time Taken: 47.25s,  
Learning Rate: 0.0011824000000000116 -> 0.  
0011758000000000116  
1390 Fold 5/5, Epoch 138/300, Train Loss: 1.  
684784591453905, Valid Loss: 195.57832598686218,  
Accuracy: 0.6247877758913413, Time Taken: 47.28s,  
Learning Rate: 0.0011758000000000116 -> 0.  
0011692000000000115  
1391 Fold 5/5, Epoch 139/300, Train Loss: 1.  
624899592454689, Valid Loss: 217.5365436077118,  
Accuracy: 0.6383701188455009, Time Taken: 46.47s,  
Learning Rate: 0.0011692000000000115 -> 0.  
0011626000000000115  
1392 Fold 5/5, Epoch 140/300, Train Loss: 1.  
2407703250152924, Valid Loss: 485.9522008895874,  
Accuracy: 0.47538200339558573, Time Taken: 46.18s,  
Learning Rate: 0.0011626000000000115 -> 0.  
0011560000000000114  
1393 Fold 5/5, Epoch 141/300, Train Loss: 0.  
9926614675260126, Valid Loss: 282.0751085281372,  
Accuracy: 0.5042444821731749, Time Taken: 46.46s,  
Learning Rate: 0.0011560000000000114 -> 0.  
0011494000000000114  
1394 Fold 5/5, Epoch 142/300, Train Loss: 0.  
658118472982637, Valid Loss: 172.18073058128357,  
Accuracy: 0.47368421052631576, Time Taken: 47.39s,  
Learning Rate: 0.0011494000000000114 -> 0.
```

```
1394 0011428000000000113
1395 Fold 5/5, Epoch 143/300, Train Loss: 2.
    0868154428921093, Valid Loss: 554.9864730834961,
    Accuracy: 0.4567062818336163, Time Taken: 48.01s,
    Learning Rate: 0.0011428000000000113 -> 0.
    0011362000000000112
1396 Fold 5/5, Epoch 144/300, Train Loss: 0.
    7839272246280711, Valid Loss: 1.4112645828186032,
    Accuracy: 0.9762308998302207, Time Taken: 47.69s,
    Learning Rate: 0.0011362000000000112 -> 0.
    0011296000000000112
1397 Fold 5/5, Epoch 145/300, Train Loss: 0.
    9620088585334949, Valid Loss: 339.91001439094543,
    Accuracy: 0.6774193548387096, Time Taken: 47.02s,
    Learning Rate: 0.0011296000000000112 -> 0.
    0011230000000000111
1398 Fold 5/5, Epoch 146/300, Train Loss: 0.
    5197471843355013, Valid Loss: 7.107499281322816,
    Accuracy: 0.9235993208828522, Time Taken: 45.97s,
    Learning Rate: 0.0011230000000000111 -> 0.
    001116400000000011
1399 Fold 5/5, Epoch 147/300, Train Loss: 0.
    4861616701096301, Valid Loss: 876.4301052093506,
    Accuracy: 0.2937181663837012, Time Taken: 46.10s,
    Learning Rate: 0.001116400000000011 -> 0.
    001109800000000011
1400 Fold 5/5, Epoch 148/300, Train Loss: 2.
    4002668562951586, Valid Loss: 789.0580768585205,
    Accuracy: 0.36502546689303905, Time Taken: 46.56s,
    Learning Rate: 0.001109800000000011 -> 0.
    001103200000000011
1401 Fold 5/5, Epoch 149/300, Train Loss: 1.
    8031153912564362, Valid Loss: 1074.3024425506592,
    Accuracy: 0.4770797962648557, Time Taken: 47.15s,
    Learning Rate: 0.001103200000000011 -> 0.
    001096600000000011
1402 Fold 5/5, Epoch 150/300, Train Loss: 2.
    620361764828388, Valid Loss: 327.9662618637085,
    Accuracy: 0.597623089983022, Time Taken: 47.83s,
    Learning Rate: 0.001096600000000011 -> 0.
    0010900000000000109
```

1403 Fold 5/5, Epoch 151/300, Train Loss: 0.
5099219120873553, Valid Loss: 0.0003721048186395848,
Accuracy: 1.0, Time Taken: 47.65s, Learning Rate
: 0.001090000000000109 -> 0.0010834000000000108

1404 Fold 5/5, Epoch 152/300, Train Loss: 0.
28987212823739306, Valid Loss: 1146.588101387024,
Accuracy: 0.5466893039049237, Time Taken: 46.96s,
Learning Rate: 0.0010834000000000108 -> 0.
0010768000000000108

1405 Fold 5/5, Epoch 153/300, Train Loss: 0.
8870396653028001, Valid Loss: 51.989694714546204,
Accuracy: 0.7911714770797963, Time Taken: 46.28s,
Learning Rate: 0.0010768000000000108 -> 0.
0010702000000000107

1406 Fold 5/5, Epoch 154/300, Train Loss: 0.
2878890579084823, Valid Loss: 78.02786582708359,
Accuracy: 0.6791171477079796, Time Taken: 46.42s,
Learning Rate: 0.0010702000000000107 -> 0.
0010636000000000107

1407 Fold 5/5, Epoch 155/300, Train Loss: 1.
4401919586480023, Valid Loss: 110.7052755355835,
Accuracy: 0.5789473684210527, Time Taken: 46.79s,
Learning Rate: 0.0010636000000000107 -> 0.
0010570000000000106

1408 Fold 5/5, Epoch 156/300, Train Loss: 1.
1256413384835264, Valid Loss: 13.842774775926955,
Accuracy: 0.8913412563667232, Time Taken: 46.97s,
Learning Rate: 0.0010570000000000106 -> 0.
0010504000000000106

1409 Fold 5/5, Epoch 157/300, Train Loss: 1.
1418779664933778, Valid Loss: 169.64069789648056,
Accuracy: 0.6434634974533107, Time Taken: 47.36s,
Learning Rate: 0.0010504000000000106 -> 0.
0010438000000000105

1410 Fold 5/5, Epoch 158/300, Train Loss: 0.
1251956870751334, Valid Loss: 266.24932193756104,
Accuracy: 0.5025466893039049, Time Taken: 47.42s,
Learning Rate: 0.0010438000000000105 -> 0.
0010372000000000105

1411 Fold 5/5, Epoch 159/300, Train Loss: 0.
6712637577014391, Valid Loss: 0.006932434505243279

```
1411 , Accuracy: 1.0, Time Taken: 48.27s, Learning Rate
      : 0.0010372000000000105 -> 0.0010306000000000104
1412 Fold 5/5, Epoch 160/300, Train Loss: 0.
      30728367957675573, Valid Loss: 8.925430291241355,
      Accuracy: 0.9235993208828522, Time Taken: 46.25s,
      Learning Rate: 0.0010306000000000104 -> 0.
      0010240000000000104
1413 Fold 5/5, Epoch 161/300, Train Loss: 0.
      5677170400127141, Valid Loss: 496.7359619140625,
      Accuracy: 0.4872665534804754, Time Taken: 46.11s,
      Learning Rate: 0.0010240000000000104 -> 0.
      0010174000000000103
1414 Fold 5/5, Epoch 162/300, Train Loss: 1.
      097500103224304, Valid Loss: 601.2021331787109,
      Accuracy: 0.47198641765704585, Time Taken: 46.59s,
      Learning Rate: 0.0010174000000000103 -> 0.
      0010108000000000103
1415 Fold 5/5, Epoch 163/300, Train Loss: 0.
      9525568260348996, Valid Loss: 293.3792417049408,
      Accuracy: 0.568760611205433, Time Taken: 46.96s,
      Learning Rate: 0.0010108000000000103 -> 0.
      0010042000000000102
1416 Fold 5/5, Epoch 164/300, Train Loss: 0.
      0312080368224521, Valid Loss: 3.000743780567916e-06
      , Accuracy: 1.0, Time Taken: 47.23s, Learning Rate
      : 0.0010042000000000102 -> 0.0009976000000000102
1417 Fold 5/5, Epoch 165/300, Train Loss: 0.
      8118802956651763, Valid Loss: 850.5060138702393,
      Accuracy: 0.33446519524617996, Time Taken: 46.98s,
      Learning Rate: 0.0009976000000000102 -> 0.
      00099100000000001
1418 Fold 5/5, Epoch 166/300, Train Loss: 0.
      5275936841389726, Valid Loss: 813.7153787612915,
      Accuracy: 0.298811544991511, Time Taken: 47.16s,
      Learning Rate: 0.00099100000000001 -> 0.
      00098440000000001
1419 Fold 5/5, Epoch 167/300, Train Loss: 0.
      6669229718810534, Valid Loss: 172.794771194458,
      Accuracy: 0.5365025466893039, Time Taken: 46.38s,
      Learning Rate: 0.00098440000000001 -> 0.
      00097780000000001
```

1420 Fold 5/5, Epoch 168/300, Train Loss: 0.
1378659132172828, Valid Loss: 14.241605382412672,
Accuracy: 0.8896434634974533, Time Taken: 46.58s,
Learning Rate: 0.00097780000000001 -> 0.
00097120000000001

1421 Fold 5/5, Epoch 169/300, Train Loss: 0.
8518708874650391, Valid Loss: 2768.9560928344727,
Accuracy: 0.35823429541595925, Time Taken: 46.35s,
Learning Rate: 0.00097120000000001 -> 0.
00096460000000000099

1422 Fold 5/5, Epoch 170/300, Train Loss: 0.
24845193173806734, Valid Loss: 1.2895024476655692e-
05, Accuracy: 1.0, Time Taken: 47.23s, Learning
Rate: 0.0009646000000000099 -> 0.
00095800000000000098

1423 Fold 5/5, Epoch 171/300, Train Loss: 0.
22466378058051273, Valid Loss: 0.000141738570452965
, Accuracy: 1.0, Time Taken: 47.24s, Learning Rate
: 0.0009580000000000098 -> 0.0009514000000000098

1424 Fold 5/5, Epoch 172/300, Train Loss: 1.
3270088187693698, Valid Loss: 1787.5694160461426,
Accuracy: 0.4142614601018676, Time Taken: 47.14s,
Learning Rate: 0.0009514000000000098 -> 0.
0009448000000000097

1425 Fold 5/5, Epoch 173/300, Train Loss: 0.
43082767564377367, Valid Loss: 149.25002831220627,
Accuracy: 0.7147707979626485, Time Taken: 47.17s,
Learning Rate: 0.0009448000000000097 -> 0.
0009382000000000097

1426 Fold 5/5, Epoch 174/300, Train Loss: 1.
0595136916644226, Valid Loss: 845.208906173706,
Accuracy: 0.29711375212224106, Time Taken: 46.60s,
Learning Rate: 0.0009382000000000097 -> 0.
0009316000000000096

1427 Fold 5/5, Epoch 175/300, Train Loss: 1.
8048105561511498, Valid Loss: 1478.532033920288,
Accuracy: 0.31239388794567063, Time Taken: 46.28s,
Learning Rate: 0.0009316000000000096 -> 0.
0009250000000000096

1428 Fold 5/5, Epoch 176/300, Train Loss: 1.
577727001121918, Valid Loss: 0.6893680528664845,

1428 Accuracy: 0.9898132427843803, Time Taken: 46.04s,
Learning Rate: 0.000925000000000096 -> 0.
0009184000000000095

1429 Fold 5/5, Epoch 177/300, Train Loss: 0.
4840957452712287, Valid Loss: 0.0037510038562675874
, Accuracy: 1.0, Time Taken: 47.19s, Learning Rate
: 0.000918400000000095 -> 0.000911800000000095

1430 Fold 5/5, Epoch 178/300, Train Loss: 1.
113678775609893, Valid Loss: 0.6781168069218211,
Accuracy: 0.9949066213921901, Time Taken: 47.35s,
Learning Rate: 0.000911800000000095 -> 0.
0009052000000000094

1431 Fold 5/5, Epoch 179/300, Train Loss: 1.
1103773126434202, Valid Loss: 622.3115844726562,
Accuracy: 0.3735144312393888, Time Taken: 50.09s,
Learning Rate: 0.000905200000000094 -> 0.
0008986000000000094

1432 Fold 5/5, Epoch 180/300, Train Loss: 0.
6721198431976712, Valid Loss: 495.1624412536621,
Accuracy: 0.4380305602716469, Time Taken: 48.30s,
Learning Rate: 0.000898600000000094 -> 0.
0008920000000000093

1433 Fold 5/5, Epoch 181/300, Train Loss: 1.
0517087422483122, Valid Loss: 783.2740993499756,
Accuracy: 0.4312393887945671, Time Taken: 47.33s,
Learning Rate: 0.000892000000000093 -> 0.
0008854000000000093

1434 Fold 5/5, Epoch 182/300, Train Loss: 1.
5184373329962009, Valid Loss: 582.5779628753662,
Accuracy: 0.5483870967741935, Time Taken: 45.99s,
Learning Rate: 0.000885400000000093 -> 0.
0008788000000000091

1435 Fold 5/5, Epoch 183/300, Train Loss: 0.
4386749016589828, Valid Loss: 20.236615002402687,
Accuracy: 0.8692699490662139, Time Taken: 46.16s,
Learning Rate: 0.000878800000000091 -> 0.
0008722000000000091

1436 Fold 5/5, Epoch 184/300, Train Loss: 0.
38080277085253833, Valid Loss: 0.04361022656533464
, Accuracy: 1.0, Time Taken: 46.45s, Learning Rate
: 0.000872200000000091 -> 0.000865600000000009

1437 Fold 5/5, Epoch 185/300, Train Loss: 0.
4041259523061216, Valid Loss: 3.0100055603554665e-06, Accuracy: 1.0, Time Taken: 47.40s, Learning Rate: 0.000865600000000009 -> 0.000859000000000009
1438 Fold 5/5, Epoch 186/300, Train Loss: 1.
7877700459247894, Valid Loss: 931.6633062362671, Accuracy: 0.37521222410865873, Time Taken: 47.67s, Learning Rate: 0.000859000000000009 -> 0.
0008524000000000088
1439 Fold 5/5, Epoch 187/300, Train Loss: 1.
3304129490078829, Valid Loss: 316.74003171920776, Accuracy: 0.6366723259762309, Time Taken: 47.25s, Learning Rate: 0.000852400000000088 -> 0.
0008458000000000087
1440 Fold 5/5, Epoch 188/300, Train Loss: 1.
1026211171710978, Valid Loss: 122.39096081256866, Accuracy: 0.6044142614601019, Time Taken: 46.76s, Learning Rate: 0.000845800000000087 -> 0.
0008392000000000087
1441 Fold 5/5, Epoch 189/300, Train Loss: 2.
212895350847618, Valid Loss: 1677.3060684204102, Accuracy: 0.36502546689303905, Time Taken: 45.97s, Learning Rate: 0.000839200000000087 -> 0.
0008326000000000086
1442 Fold 5/5, Epoch 190/300, Train Loss: 0.
7687562283438139, Valid Loss: 711.2953367233276, Accuracy: 0.6281833616298812, Time Taken: 45.92s, Learning Rate: 0.000832600000000086 -> 0.
0008260000000000086
1443 Fold 5/5, Epoch 191/300, Train Loss: 0.
5844850809834652, Valid Loss: 1.7409638889361743, Accuracy: 0.9779286926994907, Time Taken: 46.85s, Learning Rate: 0.000826000000000086 -> 0.
0008194000000000085
1444 Fold 5/5, Epoch 192/300, Train Loss: 0.
6125804207478858, Valid Loss: 1062.7072792053223, Accuracy: 0.36502546689303905, Time Taken: 46.71s, Learning Rate: 0.000819400000000085 -> 0.
0008128000000000085
1445 Fold 5/5, Epoch 193/300, Train Loss: 0.
5475927682127661, Valid Loss: 0.011672974532267233

```
1445 , Accuracy: 1.0, Time Taken: 47.55s, Learning Rate
: 0.000812800000000085 -> 0.000806200000000084
1446 Fold 5/5, Epoch 194/300, Train Loss: 0.
5223854720454648, Valid Loss: 9.709824196237605,
Accuracy: 0.8998302207130731, Time Taken: 47.59s,
Learning Rate: 0.000806200000000084 -> 0.
0007996000000000084
1447 Fold 5/5, Epoch 195/300, Train Loss: 0.
663659239532163, Valid Loss: 44.78315068781376,
Accuracy: 0.830220713073005, Time Taken: 47.33s,
Learning Rate: 0.0007996000000000084 -> 0.
0007930000000000083
1448 Fold 5/5, Epoch 196/300, Train Loss: 1.
3474286285129367, Valid Loss: 0.010871433749528592
, Accuracy: 1.0, Time Taken: 45.92s, Learning Rate
: 0.0007930000000000083 -> 0.0007864000000000083
1449 Fold 5/5, Epoch 197/300, Train Loss: 1.
0238344991536135, Valid Loss: 1051.2253684997559,
Accuracy: 0.28862478777589134, Time Taken: 46.40s,
Learning Rate: 0.0007864000000000083 -> 0.
0007798000000000082
1450 Fold 5/5, Epoch 198/300, Train Loss: 0.
6496911934408001, Valid Loss: 185.93034447729588,
Accuracy: 0.66723259762309, Time Taken: 46.62s,
Learning Rate: 0.0007798000000000082 -> 0.
0007732000000000082
1451 Fold 5/5, Epoch 199/300, Train Loss: 1.
2201464091933811, Valid Loss: 205.16311437405966,
Accuracy: 0.735144312393888, Time Taken: 46.75s,
Learning Rate: 0.0007732000000000082 -> 0.
0007666000000000081
1452 Fold 5/5, Epoch 200/300, Train Loss: 0.
9105947797462468, Valid Loss: 19.301697403047,
Accuracy: 0.8692699490662139, Time Taken: 47.48s,
Learning Rate: 0.0007666000000000081 -> 0.
0007600000000000081
1453 Fold 5/5, Epoch 201/300, Train Loss: 0.
7319893195636888, Valid Loss: 1097.5557174682617,
Accuracy: 0.30220713073005095, Time Taken: 47.06s,
Learning Rate: 0.0007600000000000081 -> 0.
000753400000000008
```

1454 Fold 5/5, Epoch 202/300, Train Loss: 0.
5010714772214309, Valid Loss: 0.005451817063928388
, Accuracy: 1.0, Time Taken: 47.57s, Learning Rate
: 0.000753400000000008 -> 0.000746800000000008

1455 Fold 5/5, Epoch 203/300, Train Loss: 0.
5480113273824436, Valid Loss: 0.0002734430334383475
, Accuracy: 1.0, Time Taken: 46.62s, Learning Rate
: 0.000746800000000008 -> 0.0007402000000000079

1456 Fold 5/5, Epoch 204/300, Train Loss: 0.
21933406910322972, Valid Loss: 441.8465566735249,
Accuracy: 0.7130730050933786, Time Taken: 46.46s,
Learning Rate: 0.0007402000000000079 -> 0.
0007336000000000079

1457 Fold 5/5, Epoch 205/300, Train Loss: 0.
6474715801958917, Valid Loss: 562.9779758453369,
Accuracy: 0.3242784380305603, Time Taken: 46.16s,
Learning Rate: 0.0007336000000000079 -> 0.
0007270000000000078

1458 Fold 5/5, Epoch 206/300, Train Loss: 0.
706365965733287, Valid Loss: 358.54601526260376,
Accuracy: 0.631578947368421, Time Taken: 47.07s,
Learning Rate: 0.0007270000000000078 -> 0.
0007204000000000078

1459 Fold 5/5, Epoch 207/300, Train Loss: 0.
8470449011863828, Valid Loss: 523.6350507736206,
Accuracy: 0.3463497453310696, Time Taken: 47.38s,
Learning Rate: 0.0007204000000000078 -> 0.
0007138000000000077

1460 Fold 5/5, Epoch 208/300, Train Loss: 0.
21949324491507483, Valid Loss: 280.4210681915283,
Accuracy: 0.5059422750424448, Time Taken: 47.70s,
Learning Rate: 0.0007138000000000077 -> 0.
0007072000000000076

1461 Fold 5/5, Epoch 209/300, Train Loss: 0.
5140011125940962, Valid Loss: 0.
00015140614149444787, Accuracy: 1.0, Time Taken: 47
.19s, Learning Rate: 0.0007072000000000076 -> 0.
0007006000000000076

1462 Fold 5/5, Epoch 210/300, Train Loss: 1.
4403882909121215, Valid Loss: 719.6622543334961,
Accuracy: 0.3735144312393888, Time Taken: 46.23s,

```
1462 Learning Rate: 0.000700600000000076 -> 0.  
0006940000000000075  
1463 Fold 5/5, Epoch 211/300, Train Loss: 2.  
057914452244547, Valid Loss: 24.091580025851727,  
Accuracy: 0.8268251273344652, Time Taken: 46.33s,  
Learning Rate: 0.0006940000000000075 -> 0.  
0006874000000000074  
1464 Fold 5/5, Epoch 212/300, Train Loss: 1.  
6641533799329142, Valid Loss: 69.1527120275423,  
Accuracy: 0.8030560271646859, Time Taken: 47.27s,  
Learning Rate: 0.0006874000000000074 -> 0.  
0006808000000000073  
1465 Fold 5/5, Epoch 213/300, Train Loss: 1.  
531222309119939, Valid Loss: 542.6950693130493,  
Accuracy: 0.565365025466893, Time Taken: 47.84s,  
Learning Rate: 0.0006808000000000073 -> 0.  
0006742000000000073  
1466 Fold 5/5, Epoch 214/300, Train Loss: 0.  
9604216913010859, Valid Loss: 40.05467548966408,  
Accuracy: 0.8098471986417657, Time Taken: 48.76s,  
Learning Rate: 0.0006742000000000073 -> 0.  
0006676000000000072  
1467 Fold 5/5, Epoch 215/300, Train Loss: 0.  
9947799579350391, Valid Loss: 4.4178507877732045,  
Accuracy: 0.9473684210526315, Time Taken: 47.88s,  
Learning Rate: 0.0006676000000000072 -> 0.  
0006610000000000072  
1468 Fold 5/5, Epoch 216/300, Train Loss: 1.  
6866333074031328, Valid Loss: 830.7473373413086,  
Accuracy: 0.34125636672325976, Time Taken: 47.75s,  
Learning Rate: 0.0006610000000000072 -> 0.  
0006544000000000071  
1469 Fold 5/5, Epoch 217/300, Train Loss: 1.  
163385371566255, Valid Loss: 0.47400366466081323,  
Accuracy: 0.9932088285229203, Time Taken: 46.64s,  
Learning Rate: 0.0006544000000000071 -> 0.  
0006478000000000071  
1470 Fold 5/5, Epoch 218/300, Train Loss: 0.  
18154362240655786, Valid Loss: 3.516436534509012,  
Accuracy: 0.9490662139219015, Time Taken: 46.23s,  
Learning Rate: 0.0006478000000000071 -> 0.
```

1470 000641200000000007
1471 Fold 5/5, Epoch 219/300, Train Loss: 0.
55283513279986, Valid Loss: 7.813964788423618,
Accuracy: 0.9303904923599321, Time Taken: 46.22s,
Learning Rate: 0.000641200000000007 -> 0.
000634600000000007
1472 Fold 5/5, Epoch 220/300, Train Loss: 0.
4721119244878329, Valid Loss: 0.
00032228852590954205, Accuracy: 1.0, Time Taken: 47.
.09s, Learning Rate: 0.000634600000000007 -> 0.
0006280000000000069
1473 Fold 5/5, Epoch 221/300, Train Loss: 0.
20718842169750395, Valid Loss: 0.
0004340243337024319, Accuracy: 1.0, Time Taken: 47.
.83s, Learning Rate: 0.0006280000000000069 -> 0.
0006214000000000069
1474 Fold 5/5, Epoch 222/300, Train Loss: 0.
6783687390708684, Valid Loss: 489.0453691482544,
Accuracy: 0.41935483870967744, Time Taken: 47.13s,
Learning Rate: 0.0006214000000000069 -> 0.
0006148000000000068
1475 Fold 5/5, Epoch 223/300, Train Loss: 0.
5747655426946015, Valid Loss: 44.679101049900055,
Accuracy: 0.8081494057724957, Time Taken: 47.07s,
Learning Rate: 0.0006148000000000068 -> 0.
0006082000000000068
1476 Fold 5/5, Epoch 224/300, Train Loss: 1.
2570602903629045, Valid Loss: 85.13383281440474,
Accuracy: 0.7096774193548387, Time Taken: 46.26s,
Learning Rate: 0.0006082000000000068 -> 0.
0006016000000000067
1477 Fold 5/5, Epoch 225/300, Train Loss: 0.
6002483156160441, Valid Loss: 8.947809993347619,
Accuracy: 0.9252971137521222, Time Taken: 46.96s,
Learning Rate: 0.0006016000000000067 -> 0.
0005950000000000067
1478 Fold 5/5, Epoch 226/300, Train Loss: 0.
30287712554902146, Valid Loss: 1.6651916828536173e-
05, Accuracy: 1.0, Time Taken: 46.67s, Learning
Rate: 0.0005950000000000067 -> 0.
0005884000000000066

1479 Fold 5/5, Epoch 227/300, Train Loss: 1.
5216855364940365, Valid Loss: 193.49600166082382,
Accuracy: 0.6281833616298812, Time Taken: 46.75s,
Learning Rate: 0.000588400000000066 -> 0.
0005818000000000066

1480 Fold 5/5, Epoch 228/300, Train Loss: 0.
6564692066124067, Valid Loss: 0.26471805484834476,
Accuracy: 0.9966044142614601, Time Taken: 47.53s,
Learning Rate: 0.000581800000000066 -> 0.
0005752000000000065

1481 Fold 5/5, Epoch 229/300, Train Loss: 0.
3147106393608734, Valid Loss: 1.9889656831750813e-
05, Accuracy: 1.0, Time Taken: 47.76s, Learning
Rate: 0.000575200000000065 -> 0.
0005686000000000064

1482 Fold 5/5, Epoch 230/300, Train Loss: 1.
7182761548801295, Valid Loss: 970.6871528625488,
Accuracy: 0.34295415959252973, Time Taken: 47.42s,
Learning Rate: 0.000568600000000064 -> 0.
0005620000000000064

1483 Fold 5/5, Epoch 231/300, Train Loss: 0.
6286421990573547, Valid Loss: 7.023113055387512,
Accuracy: 0.9269949066213922, Time Taken: 47.02s,
Learning Rate: 0.000562000000000064 -> 0.
0005554000000000063

1484 Fold 5/5, Epoch 232/300, Train Loss: 0.
48531683846318785, Valid Loss: 452.20958852767944,
Accuracy: 0.7198641765704584, Time Taken: 46.45s,
Learning Rate: 0.000555400000000063 -> 0.
0005488000000000063

1485 Fold 5/5, Epoch 233/300, Train Loss: 0.
5469551673798634, Valid Loss: 0.24960343268874752,
Accuracy: 0.99830220713073, Time Taken: 46.08s,
Learning Rate: 0.000548800000000063 -> 0.
0005422000000000062

1486 Fold 5/5, Epoch 234/300, Train Loss: 1.
1885788641752546, Valid Loss: 56.205248057842255,
Accuracy: 0.7707979626485568, Time Taken: 46.78s,
Learning Rate: 0.000542200000000062 -> 0.
0005356000000000062

1487 Fold 5/5, Epoch 235/300, Train Loss: 1.

1487 1494181025512553, Valid Loss: 213.88373690843582,
Accuracy: 0.7470288624787776, Time Taken: 47.73s,
Learning Rate: 0.000535600000000062 -> 0.
0005290000000000061

1488 Fold 5/5, Epoch 236/300, Train Loss: 0.
5233967741392105, Valid Loss: 0.006580870582624243
, Accuracy: 1.0, Time Taken: 47.48s, Learning Rate
: 0.000529000000000061 -> 0.0005224000000000061

1489 Fold 5/5, Epoch 237/300, Train Loss: 0.
3505868433525299, Valid Loss: 3.360941246643989e-05
, Accuracy: 1.0, Time Taken: 47.89s, Learning Rate
: 0.000522400000000061 -> 0.000515800000000006

1490 Fold 5/5, Epoch 238/300, Train Loss: 0.
37269477813397245, Valid Loss: 16.40911884342495,
Accuracy: 0.8879456706281834, Time Taken: 46.71s,
Learning Rate: 0.00051580000000006 -> 0.
000509200000000006

1491 Fold 5/5, Epoch 239/300, Train Loss: 0.
42305979879249467, Valid Loss: 0.
0019109486192361302, Accuracy: 1.0, Time Taken: 46.
39s, Learning Rate: 0.00050920000000006 -> 0.
0005026000000000059

1492 Fold 5/5, Epoch 240/300, Train Loss: 0.
9167805466560885, Valid Loss: 1024.340253829956,
Accuracy: 0.4142614601018676, Time Taken: 46.40s,
Learning Rate: 0.000502600000000059 -> 0.
0004960000000000059

1493 Fold 5/5, Epoch 241/300, Train Loss: 0.
26337760188362846, Valid Loss: 0.25851421681582565
, Accuracy: 0.9949066213921901, Time Taken: 46.27s
, Learning Rate: 0.000496000000000059 -> 0.
0004894000000000058

1494 Fold 5/5, Epoch 242/300, Train Loss: 0.
1643464988700476, Valid Loss: 0.03962894139533546,
Accuracy: 1.0, Time Taken: 47.14s, Learning Rate: 0
.000489400000000058 -> 0.0004828000000000577

1495 Fold 5/5, Epoch 243/300, Train Loss: 0.
45090010669336866, Valid Loss: 362.57292318344116,
Accuracy: 0.3870967741935484, Time Taken: 47.16s,
Learning Rate: 0.0004828000000000577 -> 0.
00047620000000000567

1496 Fold 5/5, Epoch 244/300, Train Loss: 0.
8491226251418764, Valid Loss: 358.5234286785126,
Accuracy: 0.4380305602716469, Time Taken: 47.23s,
Learning Rate: 0.0004762000000000567 -> 0.
000469600000000000556

1497 Fold 5/5, Epoch 245/300, Train Loss: 0.
3442163640166873, Valid Loss: 8.803887719910364e-05
, Accuracy: 1.0, Time Taken: 46.73s, Learning Rate
: 0.00046960000000000556 -> 0.0004630000000000055

1498 Fold 5/5, Epoch 246/300, Train Loss: 1.
510667646644083, Valid Loss: 18.342994820326567,
Accuracy: 0.8879456706281834, Time Taken: 46.16s,
Learning Rate: 0.000463000000000055 -> 0.
000456400000000000546

1499 Fold 5/5, Epoch 247/300, Train Loss: 0.
6166724850365695, Valid Loss: 0.006443375858196987
, Accuracy: 1.0, Time Taken: 46.57s, Learning Rate
: 0.00045640000000000546 -> 0.0004498000000000054

1500 Fold 5/5, Epoch 248/300, Train Loss: 0.
6552459560616439, Valid Loss: 0.11060307411359993,
Accuracy: 0.99830220713073, Time Taken: 46.78s,
Learning Rate: 0.0004498000000000054 -> 0.
00044320000000000053

1501 Fold 5/5, Epoch 249/300, Train Loss: 0.
0919520575549031, Valid Loss: 1.5127269788806075e-
05, Accuracy: 1.0, Time Taken: 47.16s, Learning
Rate: 0.0004432000000000053 -> 0.
000436600000000000525

1502 Fold 5/5, Epoch 250/300, Train Loss: 0.
8763395393660947, Valid Loss: 6.096829994973632,
Accuracy: 0.9439728353140917, Time Taken: 47.72s,
Learning Rate: 0.00043660000000000525 -> 0.
00043000000000000052

1503 Fold 5/5, Epoch 251/300, Train Loss: 0.
707853632397776, Valid Loss: 0.790264908440804,
Accuracy: 0.9898132427843803, Time Taken: 47.11s,
Learning Rate: 0.0004300000000000052 -> 0.
00042340000000000051

1504 Fold 5/5, Epoch 252/300, Train Loss: 0.
8323045170353947, Valid Loss: 0.054319541527490856
, Accuracy: 1.0, Time Taken: 47.28s, Learning Rate

```
1504 : 0.000423400000000051 -> 0.0004168000000000504
1505 Fold 5/5, Epoch 253/300, Train Loss: 0.
    5075386692895352, Valid Loss: 26.425096422433853,
    Accuracy: 0.799660441426146, Time Taken: 45.87s,
    Learning Rate: 0.0004168000000000504 -> 0.
    0004102000000000493
1506 Fold 5/5, Epoch 254/300, Train Loss: 0.
    5530658830734545, Valid Loss: 137.0117782771561,
    Accuracy: 0.7555178268251274, Time Taken: 46.40s,
    Learning Rate: 0.0004102000000000493 -> 0.
    000403600000000049
1507 Fold 5/5, Epoch 255/300, Train Loss: 0.
    6147877215835233, Valid Loss: 342.025767326355,
    Accuracy: 0.6519524617996605, Time Taken: 46.49s,
    Learning Rate: 0.000403600000000049 -> 0.
    0003970000000000477
1508 Fold 5/5, Epoch 256/300, Train Loss: 0.
    42481013735639017, Valid Loss: 651.2406921386719,
    Accuracy: 0.5229202037351444, Time Taken: 47.37s,
    Learning Rate: 0.0003970000000000477 -> 0.
    0003904000000000466
1509 Fold 5/5, Epoch 257/300, Train Loss: 1.
    0685725013110874, Valid Loss: 2.1113245303183703e-
    06, Accuracy: 1.0, Time Taken: 47.04s, Learning
    Rate: 0.0003904000000000466 -> 0.
    0003838000000000456
1510 Fold 5/5, Epoch 258/300, Train Loss: 0.
    7696543647608483, Valid Loss: 79.43078964948654,
    Accuracy: 0.7317487266553481, Time Taken: 47.73s,
    Learning Rate: 0.0003838000000000456 -> 0.
    000377200000000045
1511 Fold 5/5, Epoch 259/300, Train Loss: 0.
    5436963258348797, Valid Loss: 0.0009077957917984492
    , Accuracy: 1.0, Time Taken: 48.34s, Learning Rate
    : 0.000377200000000045 -> 0.0003706000000000445
1512 Fold 5/5, Epoch 260/300, Train Loss: 0.
    5994518321699553, Valid Loss: 0.025093253310274122
    , Accuracy: 1.0, Time Taken: 46.19s, Learning Rate
    : 0.0003706000000000445 -> 0.0003640000000000435
1513 Fold 5/5, Epoch 261/300, Train Loss: 0.
    5592331015738115, Valid Loss: 0.0004810681542721795
```

```
1513 , Accuracy: 1.0, Time Taken: 46.17s, Learning Rate
      : 0.0003640000000000435 -> 0.0003574000000000424
1514 Fold 5/5, Epoch 262/300, Train Loss: 0.
      24111921835512717, Valid Loss: 0.
      0028835434629854717, Accuracy: 1.0, Time Taken: 46.
      50s, Learning Rate: 0.0003574000000000424 -> 0.
      0003508000000000414
1515 Fold 5/5, Epoch 263/300, Train Loss: 0.
      4704101194549306, Valid Loss: 0.0003300206683833906
      , Accuracy: 1.0, Time Taken: 47.09s, Learning Rate
      : 0.0003508000000000414 -> 0.000344200000000041
1516 Fold 5/5, Epoch 264/300, Train Loss: 1.
      3841656814039052, Valid Loss: 0.003690990773009162
      , Accuracy: 1.0, Time Taken: 46.94s, Learning Rate
      : 0.000344200000000041 -> 0.0003376000000000403
1517 Fold 5/5, Epoch 265/300, Train Loss: 0.
      8633954177261565, Valid Loss: 0.011899419101530029
      , Accuracy: 1.0, Time Taken: 47.65s, Learning Rate
      : 0.0003376000000000403 -> 0.000331000000000004
1518 Fold 5/5, Epoch 266/300, Train Loss: 0.
      42411663094325114, Valid Loss: 2.8431108740041964,
      Accuracy: 0.966044142614601, Time Taken: 47.21s,
      Learning Rate: 0.00033100000000004 -> 0.
      0003244000000000393
1519 Fold 5/5, Epoch 267/300, Train Loss: 0.
      5315673751955501, Valid Loss: 3.723547052381093e-05
      , Accuracy: 1.0, Time Taken: 46.09s, Learning Rate
      : 0.0003244000000000393 -> 0.000317800000000039
1520 Fold 5/5, Epoch 268/300, Train Loss: 0.
      7611070776076767, Valid Loss: 0.003755595930879707
      , Accuracy: 1.0, Time Taken: 46.34s, Learning Rate
      : 0.000317800000000039 -> 0.0003112000000000377
1521 Fold 5/5, Epoch 269/300, Train Loss: 0.
      17445341685806603, Valid Loss: 0.
      0003425413728024296, Accuracy: 1.0, Time Taken: 46.
      81s, Learning Rate: 0.0003112000000000377 -> 0.
      000304600000000037
1522 Fold 5/5, Epoch 270/300, Train Loss: 0.
      25247399907446244, Valid Loss: 5.149808983695436e-
      06, Accuracy: 1.0, Time Taken: 47.13s, Learning
      Rate: 0.000304600000000037 -> 0.
```

1522 00029800000000000367
1523 Fold 5/5, Epoch 271/300, Train Loss: 0.
3244570326584011, Valid Loss: 0.04215718292135762,
Accuracy: 1.0, Time Taken: 47.39s, Learning Rate: 0
.00029800000000000367 -> 0.0002914000000000036
1524 Fold 5/5, Epoch 272/300, Train Loss: 1.
581458833419953, Valid Loss: 3.6617216707090847,
Accuracy: 0.9575551782682513, Time Taken: 47.89s,
Learning Rate: 0.0002914000000000036 -> 0.
000284800000000000356
1525 Fold 5/5, Epoch 273/300, Train Loss: 0.
1818203316091207, Valid Loss: 3.9499957928512686e-
05, Accuracy: 1.0, Time Taken: 48.14s, Learning
Rate: 0.00028480000000000356 -> 0.
000278200000000000346
1526 Fold 5/5, Epoch 274/300, Train Loss: 0.
6015917420017676, Valid Loss: 0.011057665793330784
, Accuracy: 1.0, Time Taken: 47.41s, Learning Rate
: 0.00027820000000000346 -> 0.00027160000000000335
1527 Fold 5/5, Epoch 275/300, Train Loss: 0.
19571248736550295, Valid Loss: 0.
00016488967586969494, Accuracy: 1.0, Time Taken: 48
.52s, Learning Rate: 0.0002716000000000335 -> 0.
000265000000000000324
1528 Fold 5/5, Epoch 276/300, Train Loss: 0.
5309727316772026, Valid Loss: 0.0014957186943291845
, Accuracy: 1.0, Time Taken: 46.40s, Learning Rate
: 0.00026500000000000324 -> 0.00025840000000000314
1529 Fold 5/5, Epoch 277/300, Train Loss: 0.
4328914602538152, Valid Loss: 0.0012187756224903978
, Accuracy: 1.0, Time Taken: 47.30s, Learning Rate
: 0.00025840000000000314 -> 0.0002518000000000031
1530 Fold 5/5, Epoch 278/300, Train Loss: 0.
24547105120963586, Valid Loss: 0.003502030528911959
, Accuracy: 1.0, Time Taken: 47.37s, Learning Rate
: 0.0002518000000000031 -> 0.00024520000000000303
1531 Fold 5/5, Epoch 279/300, Train Loss: 1.
2327142912058422, Valid Loss: 0.03285559203700217,
Accuracy: 1.0, Time Taken: 47.74s, Learning Rate: 0
.00024520000000000303 -> 0.00023860000000000295
1532 Fold 5/5, Epoch 280/300, Train Loss: 0.

1532 9463629725155194, Valid Loss: 4.1332336282451365e-06, Accuracy: 1.0, Time Taken: 47.48s, Learning Rate: 0.0002386000000000295 -> 0.
00023200000000000287

1533 Fold 5/5, Epoch 281/300, Train Loss: 1.
0910275501305513, Valid Loss: 8.741930490607785e-06, Accuracy: 1.0, Time Taken: 47.28s, Learning Rate : 0.0002320000000000287 -> 0.0002254000000000028

1534 Fold 5/5, Epoch 282/300, Train Loss: 0.
6165533225425675, Valid Loss: 4.489537078100625e-06, Accuracy: 1.0, Time Taken: 46.80s, Learning Rate : 0.000225400000000028 -> 0.0002188000000000027

1535 Fold 5/5, Epoch 283/300, Train Loss: 0.
5098521399032396, Valid Loss: 2.168579124184333e-05, Accuracy: 1.0, Time Taken: 46.37s, Learning Rate: 0.000218800000000027 -> 0.
00021220000000000258

1536 Fold 5/5, Epoch 284/300, Train Loss: 0.
29512081403786006, Valid Loss: 4.143835348635605e-06, Accuracy: 1.0, Time Taken: 46.45s, Learning Rate: 0.0002122000000000258 -> 0.
00020560000000000248

1537 Fold 5/5, Epoch 285/300, Train Loss: 1.
1474682518345807, Valid Loss: 65.0617301762104, Accuracy: 0.6943972835314092, Time Taken: 47.24s, Learning Rate: 0.0002056000000000248 -> 0.
00019900000000000237

1538 Fold 5/5, Epoch 286/300, Train Loss: 1.
3352812570411476, Valid Loss: 5.8591160385645935e-06, Accuracy: 1.0, Time Taken: 47.32s, Learning Rate: 0.0001990000000000237 -> 0.
00019240000000000226

1539 Fold 5/5, Epoch 287/300, Train Loss: 0.
25286978314700015, Valid Loss: 8.002176267396521e-06, Accuracy: 1.0, Time Taken: 47.52s, Learning Rate: 0.0001924000000000226 -> 0.
00018580000000000216

1540 Fold 5/5, Epoch 288/300, Train Loss: 0.
9152948717944742, Valid Loss: 8.885632382771291e-06, Accuracy: 1.0, Time Taken: 47.25s, Learning Rate : 0.0001858000000000216 -> 0.000179200000000021

1541 Fold 5/5, Epoch 289/300, Train Loss: 0.
2914068967503578, Valid Loss: 0.28578624551619214,
Accuracy: 0.9966044142614601, Time Taken: 46.19s,
Learning Rate: 0.000179200000000021 -> 0.
00017260000000000205

1542 Fold 5/5, Epoch 290/300, Train Loss: 0.
8065530459046073, Valid Loss: 4.030268587928987e-05
, Accuracy: 1.0, Time Taken: 46.30s, Learning Rate
: 0.0001726000000000205 -> 0.000166000000000002

1543 Fold 5/5, Epoch 291/300, Train Loss: 0.
6283378997153468, Valid Loss: 0.030733833644319475
, Accuracy: 1.0, Time Taken: 46.86s, Learning Rate
: 0.000166000000000002 -> 0.0001594000000000195

1544 Fold 5/5, Epoch 292/300, Train Loss: 0.
42714220802177394, Valid Loss: 7.68789989518126e-05
, Accuracy: 1.0, Time Taken: 46.57s, Learning Rate
: 0.0001594000000000195 -> 0.000152800000000019

1545 Fold 5/5, Epoch 293/300, Train Loss: 0.
49212579099486753, Valid Loss: 6.20366834667152e-05
, Accuracy: 1.0, Time Taken: 46.87s, Learning Rate
: 0.000152800000000019 -> 0.0001462000000000185

1546 Fold 5/5, Epoch 294/300, Train Loss: 0.
5145749386266374, Valid Loss: 1.808382837342748e-05
, Accuracy: 1.0, Time Taken: 46.91s, Learning Rate
: 0.0001462000000000185 -> 0.000139600000000018

1547 Fold 5/5, Epoch 295/300, Train Loss: 0.
7323624963715858, Valid Loss: 14.485023288638331,
Accuracy: 0.8964346349745331, Time Taken: 47.48s,
Learning Rate: 0.000139600000000018 -> 0.
0001330000000000171

1548 Fold 5/5, Epoch 296/300, Train Loss: 0.
8393829618540796, Valid Loss: 9.158496781402903e-06
, Accuracy: 1.0, Time Taken: 46.51s, Learning Rate
: 0.0001330000000000171 -> 0.0001264000000000166

1549 Fold 5/5, Epoch 297/300, Train Loss: 0.
5121960374450829, Valid Loss: 1.0296289946865045e-
05, Accuracy: 1.0, Time Taken: 45.72s, Learning
Rate: 0.0001264000000000166 -> 0.
0001198000000000158

1550 Fold 5/5, Epoch 298/300, Train Loss: 1.
2637877592378253, Valid Loss: 5.246461139307712e-05

```
1550 , Accuracy: 1.0, Time Taken: 46.38s, Learning Rate  
: 0.0001198000000000158 -> 0.000113200000000015  
1551 Fold 5/5, Epoch 299/300, Train Loss: 0.  
36889231190113314, Valid Loss: 0.004892942055320759  
, Accuracy: 1.0, Time Taken: 46.58s, Learning Rate  
: 0.000113200000000015 -> 0.0001066000000000143  
1552 Fold 5/5, Epoch 300/300, Train Loss: 0.  
6747372244150585, Valid Loss: 6.85058352765111e-05  
, Accuracy: 1.0, Time Taken: 47.30s, Learning Rate  
: 0.0001066000000000143 -> 0.0001000000000000135  
1553 Average Training Loss: 10.555772679323603  
1554 Training complete!  
1555 Model saved to eegnet_5fold.pth  
1556  
1557 Process finished with exit code 0  
1558
```