**Model Training Logs**

**Log -1**

Epoch 1/10, Training: 100%|██████████| 47/47 [05:31<00:00, 7.04s/it]

Train loss: 526.1480

Epoch 1/10, Validation: 100%|██████████| 8/8 [00:55<00:00, 6.95s/it]

Validation loss: 690.1617

Validation loss decreased (inf --> 690.1617). Saving model...

Epoch 2/10, Training: 100%|██████████| 47/47 [05:31<00:00, 7.05s/it]

Train loss: 465.0158

Epoch 2/10, Validation: 100%|██████████| 8/8 [00:55<00:00, 6.97s/it]

Validation loss: 622.8936

Validation loss decreased (690.1617 --> 622.8936). Saving model...

Epoch 3/10, Training: 100%|██████████| 47/47 [05:31<00:00, 7.05s/it]

Train loss: 409.3559

Epoch 3/10, Validation: 100%|██████████| 8/8 [00:55<00:00, 6.96s/it]

Validation loss: 561.5108

Validation loss decreased (622.8936 --> 561.5108). Saving model...

Epoch 4/10, Training: 100%|██████████| 47/47 [05:31<00:00, 7.05s/it]

Train loss: 358.9232

Epoch 4/10, Validation: 100%|██████████| 8/8 [00:55<00:00, 6.96s/it]

Validation loss: 505.4728

Validation loss decreased (561.5108 --> 505.4728). Saving model...

Epoch 5/10, Training: 100%|██████████| 47/47 [05:30<00:00, 7.04s/it]

Train loss: 314.2528

Epoch 5/10, Validation: 100%|██████████| 8/8 [00:55<00:00, 6.97s/it]

Validation loss: 454.6847

Validation loss decreased (505.4728 --> 454.6847). Saving model...

Epoch 6/10, Training: 100%|██████████| 47/47 [05:30<00:00, 7.04s/it]

Train loss: 275.6175

Epoch 6/10, Validation: 100%|██████████| 8/8 [00:55<00:00, 6.98s/it]

Validation loss: 408.6959

Validation loss decreased (454.6847 --> 408.6959). Saving model...

Epoch 7/10, Training: 100%|██████████| 47/47 [05:31<00:00, 7.05s/it]

Train loss: 241.0074

Epoch 7/10, Validation: 100%|██████████| 8/8 [00:55<00:00, 6.98s/it]

Validation loss: 367.2067

Validation loss decreased (408.6959 --> 367.2067). Saving model...

Epoch 8/10, Training: 100%|██████████| 47/47 [05:30<00:00, 7.04s/it]

Train loss: 210.2795

Epoch 8/10, Validation: 100%|██████████| 8/8 [00:55<00:00, 6.97s/it]

Validation loss: 329.7921

Validation loss decreased (367.2067 --> 329.7921). Saving model...

Epoch 9/10, Training: 100%|██████████| 47/47 [05:31<00:00, 7.04s/it]

Train loss: 181.9991

Epoch 9/10, Validation: 100%|██████████| 8/8 [00:55<00:00, 6.96s/it]

Validation loss: 296.3976

Validation loss decreased (329.7921 --> 296.3976). Saving model...

Epoch 10/10, Training: 100%|██████████| 47/47 [05:31<00:00, 7.05s/it]

Train loss: 160.5357

Epoch 10/10, Validation: 100%|██████████| 8/8 [00:55<00:00, 6.97s/it]

Validation loss: 266.5531

Validation loss decreased (296.3976 --> 266.5531). Saving model...

**Log - 2**

Epoch 1/10, Training: 100%|██████████| 47/47 [05:31<00:00, 7.04s/it]

Train loss: 526.1480

Epoch 1/10, Validation: 100%|██████████| 8/8 [00:55<00:00, 6.95s/it]

Validation loss: 690.1617

Validation loss decreased (inf --> 690.1617). Saving model...

Epoch 2/10, Training: 100%|██████████| 47/47 [05:31<00:00, 7.05s/it]

Train loss: 465.0158

Epoch 2/10, Validation: 100%|██████████| 8/8 [00:55<00:00, 6.97s/it]

Validation loss: 622.8936

Validation loss decreased (690.1617 --> 622.8936). Saving model...

Epoch 3/10, Training: 100%|██████████| 47/47 [05:31<00:00, 7.05s/it]

Train loss: 409.3559

Epoch 3/10, Validation: 100%|██████████| 8/8 [00:55<00:00, 6.96s/it]

Validation loss: 561.5108

Validation loss decreased (622.8936 --> 561.5108). Saving model...

Epoch 4/10, Training: 100%|██████████| 47/47 [05:31<00:00, 7.05s/it]

Train loss: 358.9232

Epoch 4/10, Validation: 100%|██████████| 8/8 [00:55<00:00, 6.96s/it]

Validation loss: 505.4728

Validation loss decreased (561.5108 --> 505.4728). Saving model...

Epoch 5/10, Training: 100%|██████████| 47/47 [05:30<00:00, 7.04s/it]

Train loss: 314.2528

Epoch 5/10, Validation: 100%|██████████| 8/8 [00:55<00:00, 6.97s/it]

Validation loss: 454.6847

Validation loss decreased (505.4728 --> 454.6847). Saving model...

Epoch 6/10, Training: 100%|██████████| 47/47 [05:30<00:00, 7.04s/it]

Train loss: 275.6175

Epoch 6/10, Validation: 100%|██████████| 8/8 [00:55<00:00, 6.98s/it]

Validation loss: 408.6959

Validation loss decreased (454.6847 --> 408.6959). Saving model...

Epoch 7/10, Training: 100%|██████████| 47/47 [05:31<00:00, 7.05s/it]

Train loss: 241.0074

Epoch 7/10, Validation: 100%|██████████| 8/8 [00:55<00:00, 6.98s/it]

Validation loss: 367.2067

Validation loss decreased (408.6959 --> 367.2067). Saving model...

Epoch 8/10, Training: 100%|██████████| 47/47 [05:30<00:00, 7.04s/it]

Train loss: 210.2795

Epoch 8/10, Validation: 100%|██████████| 8/8 [00:55<00:00, 6.97s/it]

Validation loss: 329.7921

Validation loss decreased (367.2067 --> 329.7921). Saving model...

Epoch 9/10, Training: 100%|██████████| 47/47 [05:31<00:00, 7.04s/it]

Train loss: 181.9991

Epoch 9/10, Validation: 100%|██████████| 8/8 [00:55<00:00, 6.96s/it]

Validation loss: 296.3976

Validation loss decreased (329.7921 --> 296.3976). Saving model...

Epoch 10/10, Training: 100%|██████████| 47/47 [05:31<00:00, 7.05s/it]

Train loss: 160.5357

Epoch 10/10, Validation: 100%|██████████| 8/8 [00:55<00:00, 6.97s/it]

Validation loss: 266.5531

Validation loss decreased (296.3976 --> 266.5531). Saving model...

**Log - 3**

Additional Epoch 1/20, Training: 100%|██████████| 47/47 [05:31<00:00, 7.05s/it]

Train loss: 36.4111

Additional Epoch 1/20, Validation: 100%|██████████| 8/8 [00:55<00:00, 6.98s/it]

Validation loss: 64.1782

Validation loss decreased (inf --> 64.1782). Saving model...

Additional Epoch 2/20, Training: 100%|██████████| 47/47 [05:31<00:00, 7.06s/it]

Train loss: 38.1401

Additional Epoch 2/20, Validation: 100%|██████████| 8/8 [00:55<00:00, 6.95s/it]

Validation loss: 62.4210

Validation loss decreased (64.1782 --> 62.4210). Saving model...

Additional Epoch 3/20, Training: 100%|██████████| 47/47 [05:30<00:00, 7.04s/it]

Train loss: 36.1053

Additional Epoch 3/20, Validation: 100%|██████████| 8/8 [00:55<00:00, 6.97s/it]

Validation loss: 60.9498

Validation loss decreased (62.4210 --> 60.9498). Saving model...

Additional Epoch 4/20, Training: 100%|██████████| 47/47 [05:30<00:00, 7.04s/it]

Train loss: 34.9655

Additional Epoch 4/20, Validation: 100%|██████████| 8/8 [00:55<00:00, 6.96s/it]

Validation loss: 59.6168

Validation loss decreased (60.9498 --> 59.6168). Saving model...

Additional Epoch 5/20, Training: 100%|██████████| 47/47 [05:30<00:00, 7.04s/it]

Train loss: 36.6650

Additional Epoch 5/20, Validation: 100%|██████████| 8/8 [00:55<00:00, 6.96s/it]

Validation loss: 58.5253

Validation loss decreased (59.6168 --> 58.5253). Saving model...

Additional Epoch 6/20, Training: 100%|██████████| 47/47 [05:31<00:00, 7.05s/it]

Train loss: 35.2030

Additional Epoch 6/20, Validation: 100%|██████████| 8/8 [00:55<00:00, 6.97s/it]

Validation loss: 57.2230

Validation loss decreased (58.5253 --> 57.2230). Saving model...

Additional Epoch 7/20, Training: 100%|██████████| 47/47 [05:30<00:00, 7.04s/it]

Train loss: 34.8884

Additional Epoch 7/20, Validation: 100%|██████████| 8/8 [00:55<00:00, 6.96s/it]

Validation loss: 56.2643

Validation loss decreased (57.2230 --> 56.2643). Saving model...

Additional Epoch 8/20, Training: 100%|██████████| 47/47 [05:30<00:00, 7.04s/it]

Train loss: 35.4089

Additional Epoch 8/20, Validation: 100%|██████████| 8/8 [00:55<00:00, 6.97s/it]

Validation loss: 55.1624

Validation loss decreased (56.2643 --> 55.1624). Saving model...

Additional Epoch 9/20, Training: 100%|██████████| 47/47 [05:30<00:00, 7.04s/it]

Train loss: 33.1112

Additional Epoch 9/20, Validation: 100%|██████████| 8/8 [00:55<00:00, 6.99s/it]

Validation loss: 54.3360

Validation loss decreased (55.1624 --> 54.3360). Saving model...

Additional Epoch 10/20, Training: 100%|██████████| 47/47 [05:31<00:00, 7.06s/it]

Train loss: 34.0025

Additional Epoch 10/20, Validation: 100%|██████████| 8/8 [00:55<00:00, 6.97s/it]

Validation loss: 53.4635

Validation loss decreased (54.3360 --> 53.4635). Saving model...

Additional Epoch 11/20, Training: 100%|██████████| 47/47 [05:31<00:00, 7.05s/it]

Train loss: 32.8215

Additional Epoch 11/20, Validation: 100%|██████████| 8/8 [00:55<00:00, 6.97s/it]

Validation loss: 52.5170

Validation loss decreased (53.4635 --> 52.5170). Saving model...

Additional Epoch 12/20, Training: 100%|██████████| 47/47 [05:30<00:00, 7.04s/it]

Train loss: 32.7304

Additional Epoch 12/20, Validation: 100%|██████████| 8/8 [00:55<00:00, 6.96s/it]

Validation loss: 51.9664

Validation loss decreased (52.5170 --> 51.9664). Saving model...

Additional Epoch 13/20, Training: 100%|██████████| 47/47 [05:31<00:00, 7.04s/it]

Train loss: 32.4698

Additional Epoch 13/20, Validation: 100%|██████████| 8/8 [00:55<00:00, 6.97s/it]

Validation loss: 51.3721

Validation loss decreased (51.9664 --> 51.3721). Saving model...

Additional Epoch 14/20, Training: 100%|██████████| 47/47 [05:31<00:00, 7.04s/it]

Train loss: 32.9646

Additional Epoch 14/20, Validation: 100%|██████████| 8/8 [00:55<00:00, 6.97s/it]

Validation loss: 50.8401

Validation loss decreased (51.3721 --> 50.8401). Saving model...

Additional Epoch 15/20, Training: 100%|██████████| 47/47 [05:31<00:00, 7.04s/it]

Train loss: 31.7905

Additional Epoch 15/20, Validation: 100%|██████████| 8/8 [00:55<00:00, 6.96s/it]

Validation loss: 50.3722

Validation loss decreased (50.8401 --> 50.3722). Saving model...

Additional Epoch 16/20, Training: 100%|██████████| 47/47 [05:30<00:00, 7.04s/it]

Train loss: 32.2843

Additional Epoch 16/20, Validation: 100%|██████████| 8/8 [00:55<00:00, 6.96s/it]

Validation loss: 49.8136

Validation loss decreased (50.3722 --> 49.8136). Saving model...

Additional Epoch 17/20, Training: 100%|██████████| 47/47 [05:30<00:00, 7.02s/it]

Train loss: 31.6441

Additional Epoch 17/20, Validation: 100%|██████████| 8/8 [00:55<00:00, 6.93s/it]

Validation loss: 49.2573

Validation loss decreased (49.8136 --> 49.2573). Saving model...

Additional Epoch 18/20, Training: 100%|██████████| 47/47 [05:30<00:00, 7.03s/it]

Train loss: 31.5310

Additional Epoch 18/20, Validation: 100%|██████████| 8/8 [00:55<00:00, 6.95s/it]

Validation loss: 48.5572

Validation loss decreased (49.2573 --> 48.5572). Saving model...

Additional Epoch 19/20, Training: 100%|██████████| 47/47 [05:29<00:00, 7.02s/it]

Train loss: 30.8710

Additional Epoch 19/20, Validation: 100%|██████████| 8/8 [00:55<00:00, 6.93s/it]

Validation loss: 48.0223

Validation loss decreased (48.5572 --> 48.0223). Saving model...

Additional Epoch 20/20, Training: 100%|██████████| 47/47 [05:30<00:00, 7.02s/it]

Train loss: 30.2458

Additional Epoch 20/20, Validation: 100%|██████████| 8/8 [00:55<00:00, 6.95s/it]

Validation loss: 47.6811

Validation loss decreased (48.0223 --> 47.6811). Saving model...

**Log - 4**

Additional Epoch 1/50, Training: 100%|██████████| 47/47 [05:29<00:00, 7.01s/it]

Train loss: 30.7906

Additional Epoch 1/50, Validation: 100%|██████████| 8/8 [00:55<00:00, 6.94s/it]

Validation loss: 47.1582

Validation loss decreased (inf --> 47.1582). Saving model...

Additional Epoch 2/50, Training: 100%|██████████| 47/47 [05:30<00:00, 7.03s/it]

Train loss: 30.5121

Additional Epoch 2/50, Validation: 100%|██████████| 8/8 [00:55<00:00, 6.93s/it]

Validation loss: 46.6673

Validation loss decreased (47.1582 --> 46.6673). Saving model...

Additional Epoch 3/50, Training: 100%|██████████| 47/47 [05:29<00:00, 7.01s/it]

Train loss: 29.6709

Additional Epoch 3/50, Validation: 100%|██████████| 8/8 [00:55<00:00, 6.94s/it]

Validation loss: 46.0091

Validation loss decreased (46.6673 --> 46.0091). Saving model...

Additional Epoch 4/50, Training: 100%|██████████| 47/47 [05:31<00:00, 7.05s/it]

Train loss: 29.7033

Additional Epoch 4/50, Validation: 100%|██████████| 8/8 [00:55<00:00, 6.98s/it]

Validation loss: 45.7819

Validation loss decreased (46.0091 --> 45.7819). Saving model...

Additional Epoch 5/50, Training: 100%|██████████| 47/47 [05:31<00:00, 7.06s/it]

Train loss: 30.4837

Additional Epoch 5/50, Validation: 100%|██████████| 8/8 [00:55<00:00, 6.97s/it]

Validation loss: 45.4675

Validation loss decreased (45.7819 --> 45.4675). Saving model...

Additional Epoch 6/50, Training: 100%|██████████| 47/47 [05:30<00:00, 7.04s/it]

Train loss: 29.6320

Additional Epoch 6/50, Validation: 100%|██████████| 8/8 [00:55<00:00, 6.98s/it]

Validation loss: 44.9973

Validation loss decreased (45.4675 --> 44.9973). Saving model...

Additional Epoch 7/50, Training: 100%|██████████| 47/47 [05:30<00:00, 7.04s/it]

Train loss: 29.1290

Additional Epoch 7/50, Validation: 100%|██████████| 8/8 [00:55<00:00, 6.94s/it]

Validation loss: 44.6208

Validation loss decreased (44.9973 --> 44.6208). Saving model...

Additional Epoch 8/50, Training: 89%|████████▉ | 42/47 [04:58<00:35, 7.12s/it]

**Log - 5**

Additional Epoch 1/10, Training: 100%|██████████| 47/47 [06:04<00:00, 7.75s/it]

Train loss: 27.7377

Additional Epoch 1/10, Validation: 100%|██████████| 8/8 [00:55<00:00, 6.94s/it]

Validation loss: 30.9858

Validation loss decreased (inf --> 30.9858). Saving model...

Additional Epoch 2/10, Training: 100%|██████████| 47/47 [06:03<00:00, 7.74s/it]

Train loss: 25.8001

Additional Epoch 2/10, Validation: 100%|██████████| 8/8 [00:55<00:00, 6.94s/it]

Validation loss: 34.8433

Additional Epoch 3/10, Training: 100%|██████████| 47/47 [06:03<00:00, 7.72s/it]

Train loss: 26.5511

Additional Epoch 3/10, Validation: 100%|██████████| 8/8 [00:55<00:00, 6.93s/it]

Validation loss: 41.4206

Additional Epoch 4/10, Training: 100%|██████████| 47/47 [06:03<00:00, 7.74s/it]

Train loss: 25.1970

Additional Epoch 4/10, Validation: 100%|██████████| 8/8 [00:55<00:00, 6.91s/it]

Validation loss: 40.4464

Additional Epoch 5/10, Training: 100%|██████████| 47/47 [06:03<00:00, 7.74s/it]

Train loss: 23.1777

Additional Epoch 5/10, Validation: 100%|██████████| 8/8 [00:55<00:00, 6.92s/it]

Validation loss: 31.1527

Additional Epoch 6/10, Training: 100%|██████████| 47/47 [06:03<00:00, 7.72s/it]

Train loss: 23.3808

Additional Epoch 6/10, Validation: 100%|██████████| 8/8 [00:55<00:00, 6.92s/it]

Validation loss: 34.9481

Additional Epoch 7/10, Training: 100%|██████████| 47/47 [06:03<00:00, 7.74s/it]

Train loss: 23.4315

Additional Epoch 7/10, Validation: 100%|██████████| 8/8 [00:55<00:00, 6.94s/it]

Validation loss: 24.0037

Validation loss decreased (30.9858 --> 24.0037). Saving model...

Additional Epoch 8/10, Training: 100%|██████████| 47/47 [06:03<00:00, 7.74s/it]

Train loss: 22.4888

Additional Epoch 8/10, Validation: 100%|██████████| 8/8 [00:55<00:00, 6.93s/it]

Validation loss: 34.2071

Additional Epoch 9/10, Training: 100%|██████████| 47/47 [06:03<00:00, 7.74s/it]

Train loss: 21.7202

**Log - 6**

Additional Epoch 1/10, Training: 100%|██████████| 47/47 [06:04<00:00, 7.75s/it]

Train loss: 27.7377

Additional Epoch 1/10, Validation: 100%|██████████| 8/8 [00:55<00:00, 6.94s/it]

Validation loss: 30.9858

Validation loss decreased (inf --> 30.9858). Saving model...

Additional Epoch 2/10, Training: 100%|██████████| 47/47 [06:03<00:00, 7.74s/it]

Train loss: 25.8001

Additional Epoch 2/10, Validation: 100%|██████████| 8/8 [00:55<00:00, 6.94s/it]

Validation loss: 34.8433

Additional Epoch 3/10, Training: 100%|██████████| 47/47 [06:03<00:00, 7.72s/it]

Train loss: 26.5511

Additional Epoch 3/10, Validation: 100%|██████████| 8/8 [00:55<00:00, 6.93s/it]

Validation loss: 41.4206

Additional Epoch 4/10, Training: 100%|██████████| 47/47 [06:03<00:00, 7.74s/it]

Train loss: 25.1970

Additional Epoch 4/10, Validation: 100%|██████████| 8/8 [00:55<00:00, 6.91s/it]

Validation loss: 40.4464

Additional Epoch 5/10, Training: 100%|██████████| 47/47 [06:03<00:00, 7.74s/it]

Train loss: 23.1777

Additional Epoch 5/10, Validation: 100%|██████████| 8/8 [00:55<00:00, 6.92s/it]

Validation loss: 31.1527

Additional Epoch 6/10, Training: 100%|██████████| 47/47 [06:03<00:00, 7.72s/it]

Train loss: 23.3808

Additional Epoch 6/10, Validation: 100%|██████████| 8/8 [00:55<00:00, 6.92s/it]

Validation loss: 34.9481

Additional Epoch 7/10, Training: 100%|██████████| 47/47 [06:03<00:00, 7.74s/it]

Train loss: 23.4315

Additional Epoch 7/10, Validation: 100%|██████████| 8/8 [00:55<00:00, 6.94s/it]

Validation loss: 24.0037

Validation loss decreased (30.9858 --> 24.0037). Saving model...

Additional Epoch 8/10, Training: 100%|██████████| 47/47 [06:03<00:00, 7.74s/it]

Train loss: 22.4888

Additional Epoch 8/10, Validation: 100%|██████████| 8/8 [00:55<00:00, 6.93s/it]

Validation loss: 34.2071

Additional Epoch 9/10, Training: 100%|██████████| 47/47 [06:03<00:00, 7.74s/it]

Train loss: 21.7202