raining Epoch 1/100: 8%|████████▏ | 99/1243 [01:47<09:04, 2.10it/s][Epoch 001/100] [Step 0100/1243] G\_Loss: 0.1041, D\_Loss: 2.8547, PSNR: 25.32, SSIM: 0.6825

Training Epoch 1/100: 16%|████████████████▎ | 199/1243 [02:35<08:16, 2.10it/s][Epoch 001/100] [Step 0200/1243] G\_Loss: 0.1106, D\_Loss: 3.2934, PSNR: 24.68, SSIM: 0.7371

Training Epoch 1/100: 24%|████████████████████████▌ | 299/1243 [03:23<07:30, 2.09it/s][Epoch 001/100] [Step 0300/1243] G\_Loss: 0.1141, D\_Loss: 3.6384, PSNR: 24.46, SSIM: 0.7427

Training Epoch 1/100: 32%|████████████████████████████████▋ | 399/1243 [04:11<06:44, 2.09it/s][Epoch 001/100] [Step 0400/1243] G\_Loss: 0.1162, D\_Loss: 3.8274, PSNR: 24.44, SSIM: 0.7709

Training Epoch 1/100: 40%|████████████████████████████████████████▉ | 499/1243 [04:58<05:54, 2.10it/s][Epoch 001/100] [Step 0500/1243] G\_Loss: 0.0847, D\_Loss: 4.0023, PSNR: 27.25, SSIM: 0.8050

Training Epoch 1/100: 48%|█████████████████████████████████████████████████▏ | 599/1243 [05:46<05:06, 2.10it/s][Epoch 001/100] [Step 0600/1243] G\_Loss: 0.0831, D\_Loss: 4.0861, PSNR: 27.57, SSIM: 0.8416

Training Epoch 1/100: 56%|█████████████████████████████████████████████████████████▎ | 699/1243 [06:34<04:19, 2.10it/s][Epoch 001/100] [Step 0700/1243] G\_Loss: 0.0813, D\_Loss: 4.2854, PSNR: 27.28, SSIM: 0.8033

Training Epoch 1/100: 64%|█████████████████████████████████████████████████████████████████▌ | 799/1243 [07:22<03:31, 2.10it/s][Epoch 001/100] [Step 0800/1243] G\_Loss: 0.1079, D\_Loss: 4.3332, PSNR: 25.44, SSIM: 0.7554

Training Epoch 1/100: 72%|█████████████████████████████████████████████████████████████████████████▊ | 899/1243 [08:10<02:43, 2.10it/s][Epoch 001/100] [Step 0900/1243] G\_Loss: 0.0831, D\_Loss: 4.4661, PSNR: 27.43, SSIM: 0.8141

Training Epoch 1/100: 80%|█████████████████████████████████████████████████████████████████████████████████▉ | 999/1243 [08:57<01:56, 2.10it/s][Epoch 001/100] [Step 1000/1243] G\_Loss: 0.1015, D\_Loss: 4.5681, PSNR: 25.50, SSIM: 0.7635

Training Epoch 1/100: 88%|█████████████████████████████████████████████████████████████████████████████████████████▎ | 1099/1243 [09:45<01:08, 2.10it/s][Epoch 001/100] [Step 1100/1243] G\_Loss: 0.0764, D\_Loss: 4.6455, PSNR: 28.57, SSIM: 0.8210

Training Epoch 1/100: 96%|█████████████████████████████████████████████████████████████████████████████████████████████████▍ | 1199/1243 [10:33<00:20, 2.10it/s][Epoch 001/100] [Step 1200/1243] G\_Loss: 0.0795, D\_Loss: 4.7460, PSNR: 28.07, SSIM: 0.8719

======== Epoch 001 ========

Gen Loss Avg: 0.1055

Disc Loss Avg: 3.9682

Validation PSNR: 29.39 dB

Validation SSIM: 0.8233

Current LR: 1.00e-04

[INFO] Saved Best Checkpoint: ./checkpoints\best\_gen\_epoch001.pth

Training Epoch 2/100: 8%|████████▏ | 99/1243 [01:57<09:08, 2.08it/s][Epoch 002/100] [Step 0100/1243] G\_Loss: 0.0771, D\_Loss: 4.8174, PSNR: 27.85, SSIM: 0.8300

Training Epoch 2/100: 16%|████████████████▎ | 199/1243 [02:45<08:21, 2.08it/s][Epoch 002/100] [Step 0200/1243] G\_Loss: 0.0814, D\_Loss: 4.8900, PSNR: 28.00, SSIM: 0.8329

Training Epoch 2/100: 24%|████████████████████████▌ | 299/1243 [03:33<07:32, 2.09it/s][Epoch 002/100] [Step 0300/1243] G\_Loss: 0.0854, D\_Loss: 4.8326, PSNR: 27.29, SSIM: 0.8536

Training Epoch 2/100: 32%|████████████████████████████████▋ | 399/1243 [04:21<06:43, 2.09it/s][Epoch 002/100] [Step 0400/1243] G\_Loss: 0.0637, D\_Loss: 4.9410, PSNR: 29.62, SSIM: 0.8396

Training Epoch 2/100: 40%|████████████████████████████████████████▉ | 499/1243 [05:10<05:55, 2.09it/s][Epoch 002/100] [Step 0500/1243] G\_Loss: 0.0751, D\_Loss: 5.0297, PSNR: 28.08, SSIM: 0.8395

Training Epoch 2/100: 48%|█████████████████████████████████████████████████▏ | 599/1243 [05:58<05:07, 2.09it/s][Epoch 002/100] [Step 0600/1243] G\_Loss: 0.0690, D\_Loss: 5.1486, PSNR: 29.08, SSIM: 0.8255

Training Epoch 2/100: 56%|█████████████████████████████████████████████████████████▎ | 699/1243 [06:45<04:18, 2.10it/s][Epoch 002/100] [Step 0700/1243] G\_Loss: 0.0726, D\_Loss: 5.1843, PSNR: 29.27, SSIM: 0.8448

Training Epoch 2/100: 64%|█████████████████████████████████████████████████████████████████▌ | 799/1243 [07:33<03:31, 2.10it/s][Epoch 002/100] [Step 0800/1243] G\_Loss: 0.0777, D\_Loss: 5.2164, PSNR: 27.87, SSIM: 0.8390

Training Epoch 2/100: 72%|█████████████████████████████████████████████████████████████████████████▊ | 899/1243 [08:21<02:43, 2.10it/s][Epoch 002/100] [Step 0900/1243] G\_Loss: 0.0837, D\_Loss: 5.2774, PSNR: 27.64, SSIM: 0.8425

Training Epoch 2/100: 80%|█████████████████████████████████████████████████████████████████████████████████▉ | 999/1243 [09:09<01:55, 2.10it/s][Epoch 002/100] [Step 1000/1243] G\_Loss: 0.0684, D\_Loss: 5.3041, PSNR: 29.01, SSIM: 0.8611

Training Epoch 2/100: 88%|█████████████████████████████████████████████████████████████████████████████████████████▎ | 1099/1243 [09:57<01:08, 2.10it/s][Epoch 002/100] [Step 1100/1243] G\_Loss: 0.0575, D\_Loss: 5.3523, PSNR: 30.75, SSIM: 0.8642

Training Epoch 2/100: 96%|█████████████████████████████████████████████████████████████████████████████████████████████████▍ | 1199/1243 [10:45<00:20, 2.10it/s][Epoch 002/100] [Step 1200/1243] G\_Loss: 0.0623, D\_Loss: 5.4155, PSNR: 30.21, SSIM: 0.8542

======== Epoch 002 ========

Gen Loss Avg: 0.0729

Disc Loss Avg: 5.0965

Validation PSNR: 29.99 dB

Validation SSIM: 0.8461

Current LR: 1.00e-04

[INFO] Saved Best Checkpoint: ./checkpoints\best\_gen\_epoch002.pth

Training Epoch 3/100: 8%|████████▏ | 99/1243 [01:47<09:03, 2.11it/s][Epoch 003/100] [Step 0100/1243] G\_Loss: 0.0628, D\_Loss: 5.4346, PSNR: 29.55, SSIM: 0.8300

Training Epoch 3/100: 16%|████████████████▎ | 199/1243 [02:34<08:15, 2.11it/s][Epoch 003/100] [Step 0200/1243] G\_Loss: 0.0798, D\_Loss: 5.4605, PSNR: 27.74, SSIM: 0.8538

Training Epoch 3/100: 24%|████████████████████████▌ | 299/1243 [03:22<07:29, 2.10it/s][Epoch 003/100] [Step 0300/1243] G\_Loss: 0.0688, D\_Loss: 5.5273, PSNR: 29.10, SSIM: 0.8561

Training Epoch 3/100: 32%|████████████████████████████████▋ | 399/1243 [04:10<06:41, 2.10it/s][Epoch 003/100] [Step 0400/1243] G\_Loss: 0.0594, D\_Loss: 5.5955, PSNR: 30.56, SSIM: 0.8561

Training Epoch 3/100: 40%|████████████████████████████████████████▉ | 499/1243 [04:58<05:53, 2.10it/s][Epoch 003/100] [Step 0500/1243] G\_Loss: 0.0626, D\_Loss: 5.5746, PSNR: 29.66, SSIM: 0.8781

Training Epoch 3/100: 48%|█████████████████████████████████████████████████▏ | 599/1243 [05:46<05:06, 2.10it/s][Epoch 003/100] [Step 0600/1243] G\_Loss: 0.0638, D\_Loss: 5.6050, PSNR: 29.64, SSIM: 0.8779

Training Epoch 3/100: 56%|█████████████████████████████████████████████████████████▎ | 699/1243 [06:33<04:19, 2.09it/s][Epoch 003/100] [Step 0700/1243] G\_Loss: 0.0628, D\_Loss: 5.6841, PSNR: 30.10, SSIM: 0.8413

Training Epoch 3/100: 64%|█████████████████████████████████████████████████████████████████▌ | 799/1243 [07:21<03:31, 2.10it/s][Epoch 003/100] [Step 0800/1243] G\_Loss: 0.0657, D\_Loss: 5.6167, PSNR: 29.39, SSIM: 0.8660

Training Epoch 3/100: 72%|█████████████████████████████████████████████████████████████████████████▊ | 899/1243 [08:09<02:43, 2.10it/s][Epoch 003/100] [Step 0900/1243] G\_Loss: 0.0568, D\_Loss: 5.7367, PSNR: 31.08, SSIM: 0.8725

Training Epoch 3/100: 80%|█████████████████████████████████████████████████████████████████████████████████▉ | 999/1243 [08:57<01:56, 2.10it/s][Epoch 003/100] [Step 1000/1243] G\_Loss: 0.0628, D\_Loss: 5.7350, PSNR: 29.78, SSIM: 0.8818

Training Epoch 3/100: 88%|█████████████████████████████████████████████████████████████████████████████████████████▎ | 1099/1243 [09:45<01:08, 2.10it/s][Epoch 003/100] [Step 1100/1243] G\_Loss: 0.0683, D\_Loss: 5.8254, PSNR: 29.09, SSIM: 0.8840

Training Epoch 3/100: 96%|█████████████████████████████████████████████████████████████████████████████████████████████████▍ | 1199/1243 [10:33<00:20, 2.10it/s][Epoch 003/100] [Step 1200/1243] G\_Loss: 0.0622, D\_Loss: 5.7824, PSNR: 30.06, SSIM: 0.8636

======== Epoch 003 ========

Gen Loss Avg: 0.0638

Disc Loss Avg: 5.6271

Validation PSNR: 31.03 dB

Validation SSIM: 0.8704

Current LR: 1.00e-04

[INFO] Saved Best Checkpoint: ./checkpoints\best\_gen\_epoch003.pth

Training Epoch 4/100: 8%|████████▏ | 99/1243 [01:44<09:05, 2.10it/s][Epoch 004/100] [Step 0100/1243] G\_Loss: 0.0569, D\_Loss: 5.8588, PSNR: 30.74, SSIM: 0.8523

Training Epoch 4/100: 16%|████████████████▎ | 199/1243 [02:32<08:17, 2.10it/s][Epoch 004/100] [Step 0200/1243] G\_Loss: 0.0675, D\_Loss: 5.9681, PSNR: 28.78, SSIM: 0.8628

Training Epoch 4/100: 24%|████████████████████████▌ | 299/1243 [03:20<07:29, 2.10it/s][Epoch 004/100] [Step 0300/1243] G\_Loss: 0.0669, D\_Loss: 5.9425, PSNR: 29.20, SSIM: 0.8473

Training Epoch 4/100: 32%|████████████████████████████████▋ | 399/1243 [04:08<06:42, 2.10it/s][Epoch 004/100] [Step 0400/1243] G\_Loss: 0.0596, D\_Loss: 5.9990, PSNR: 29.81, SSIM: 0.9080

Training Epoch 4/100: 40%|████████████████████████████████████████▉ | 499/1243 [04:56<05:53, 2.10it/s][Epoch 004/100] [Step 0500/1243] G\_Loss: 0.0573, D\_Loss: 6.0652, PSNR: 30.59, SSIM: 0.8629

Training Epoch 4/100: 48%|█████████████████████████████████████████████████▏ | 599/1243 [05:43<05:06, 2.10it/s][Epoch 004/100] [Step 0600/1243] G\_Loss: 0.0596, D\_Loss: 5.9147, PSNR: 30.13, SSIM: 0.8699

Training Epoch 4/100: 56%|█████████████████████████████████████████████████████████▎ | 699/1243 [06:31<04:19, 2.10it/s][Epoch 004/100] [Step 0700/1243] G\_Loss: 0.0706, D\_Loss: 6.0447, PSNR: 29.04, SSIM: 0.8247

Training Epoch 4/100: 64%|█████████████████████████████████████████████████████████████████▌ | 799/1243 [07:19<03:31, 2.10it/s][Epoch 004/100] [Step 0800/1243] G\_Loss: 0.0506, D\_Loss: 6.1480, PSNR: 31.67, SSIM: 0.8854

Training Epoch 4/100: 72%|█████████████████████████████████████████████████████████████████████████▊ | 899/1243 [08:07<02:43, 2.10it/s][Epoch 004/100] [Step 0900/1243] G\_Loss: 0.0508, D\_Loss: 6.1776, PSNR: 31.22, SSIM: 0.8918

Training Epoch 4/100: 80%|█████████████████████████████████████████████████████████████████████████████████▉ | 999/1243 [08:55<01:56, 2.10it/s][Epoch 004/100] [Step 1000/1243] G\_Loss: 0.0554, D\_Loss: 6.0752, PSNR: 30.75, SSIM: 0.8849

Training Epoch 4/100: 88%|█████████████████████████████████████████████████████████████████████████████████████████▎ | 1099/1243 [09:42<01:08, 2.10it/s][Epoch 004/100] [Step 1100/1243] G\_Loss: 0.0461, D\_Loss: 6.2200, PSNR: 31.64, SSIM: 0.9157

Training Epoch 4/100: 96%|█████████████████████████████████████████████████████████████████████████████████████████████████▍ | 1199/1243 [10:30<00:20, 2.10it/s][Epoch 004/100] [Step 1200/1243] G\_Loss: 0.0618, D\_Loss: 6.2482, PSNR: 29.81, SSIM: 0.8125

======== Epoch 004 ========

Gen Loss Avg: 0.0582

Disc Loss Avg: 6.0363

Validation PSNR: 31.34 dB

Validation SSIM: 0.8859

Current LR: 1.00e-04

[INFO] Saved Best Checkpoint: ./checkpoints\best\_gen\_epoch004.pth

Training Epoch 5/100: 8%|████████▏ | 99/1243 [01:42<09:05, 2.10it/s][Epoch 005/100] [Step 0100/1243] G\_Loss: 0.0564, D\_Loss: 6.3184, PSNR: 30.77, SSIM: 0.8590

Training Epoch 5/100: 16%|████████████████▎ | 199/1243 [02:30<08:16, 2.10it/s][Epoch 005/100] [Step 0200/1243] G\_Loss: 0.0491, D\_Loss: 6.2304, PSNR: 31.82, SSIM: 0.9080

Training Epoch 5/100: 24%|████████████████████████▌ | 299/1243 [03:18<07:29, 2.10it/s][Epoch 005/100] [Step 0300/1243] G\_Loss: 0.0552, D\_Loss: 6.2471, PSNR: 30.42, SSIM: 0.8797

Training Epoch 5/100: 32%|████████████████████████████████▋ | 399/1243 [04:06<06:41, 2.10it/s][Epoch 005/100] [Step 0400/1243] G\_Loss: 0.0513, D\_Loss: 6.2983, PSNR: 31.06, SSIM: 0.9015

Training Epoch 5/100: 40%|████████████████████████████████████████▉ | 499/1243 [04:53<05:55, 2.10it/s][Epoch 005/100] [Step 0500/1243] G\_Loss: 0.0616, D\_Loss: 6.3298, PSNR: 30.00, SSIM: 0.8935

Training Epoch 5/100: 48%|█████████████████████████████████████████████████▏ | 599/1243 [05:41<05:07, 2.10it/s][Epoch 005/100] [Step 0600/1243] G\_Loss: 0.0402, D\_Loss: 6.4631, PSNR: 33.24, SSIM: 0.9139

Training Epoch 5/100: 56%|█████████████████████████████████████████████████████████▎ | 699/1243 [06:29<04:19, 2.10it/s][Epoch 005/100] [Step 0700/1243] G\_Loss: 0.0556, D\_Loss: 6.4566, PSNR: 30.46, SSIM: 0.8743

Training Epoch 5/100: 64%|█████████████████████████████████████████████████████████████████▌ | 799/1243 [07:17<03:31, 2.10it/s][Epoch 005/100] [Step 0800/1243] G\_Loss: 0.0477, D\_Loss: 6.4971, PSNR: 31.02, SSIM: 0.9049

Training Epoch 5/100: 72%|█████████████████████████████████████████████████████████████████████████▊ | 899/1243 [08:05<02:44, 2.10it/s][Epoch 005/100] [Step 0900/1243] G\_Loss: 0.0529, D\_Loss: 6.4647, PSNR: 30.75, SSIM: 0.8977

Training Epoch 5/100: 80%|█████████████████████████████████████████████████████████████████████████████████▉ | 999/1243 [08:53<01:56, 2.09it/s][Epoch 005/100] [Step 1000/1243] G\_Loss: 0.0514, D\_Loss: 6.5657, PSNR: 31.91, SSIM: 0.8623

Training Epoch 5/100: 88%|█████████████████████████████████████████████████████████████████████████████████████████▎ | 1099/1243 [09:41<01:08, 2.10it/s][Epoch 005/100] [Step 1100/1243] G\_Loss: 0.0556, D\_Loss: 6.4526, PSNR: 30.72, SSIM: 0.9049

Training Epoch 5/100: 96%|█████████████████████████████████████████████████████████████████████████████████████████████████▍ | 1199/1243 [10:28<00:20, 2.10it/s][Epoch 005/100] [Step 1200/1243] G\_Loss: 0.0624, D\_Loss: 6.4840, PSNR: 29.61, SSIM: 0.8989

======== Epoch 005 ========

Gen Loss Avg: 0.0550

Disc Loss Avg: 6.4042

Validation PSNR: 31.42 dB

Validation SSIM: 0.8844

Current LR: 1.00e-04

[INFO] Saved Best Checkpoint: ./checkpoints\best\_gen\_epoch005.pth

Training Epoch 6/100: 8%|████████▏ | 99/1243 [01:41<09:05, 2.10it/s][Epoch 006/100] [Step 0100/1243] G\_Loss: 0.0597, D\_Loss: 6.5694, PSNR: 29.93, SSIM: 0.8707

Training Epoch 6/100: 16%|████████████████▎ | 199/1243 [02:29<08:16, 2.10it/s][Epoch 006/100] [Step 0200/1243] G\_Loss: 0.0441, D\_Loss: 6.5957, PSNR: 32.23, SSIM: 0.9122

Training Epoch 6/100: 24%|████████████████████████▌ | 299/1243 [03:17<07:29, 2.10it/s][Epoch 006/100] [Step 0300/1243] G\_Loss: 0.0519, D\_Loss: 6.5956, PSNR: 30.79, SSIM: 0.9007

Training Epoch 6/100: 32%|████████████████████████████████▋ | 399/1243 [04:05<06:42, 2.10it/s][Epoch 006/100] [Step 0400/1243] G\_Loss: 0.0469, D\_Loss: 6.7910, PSNR: 31.54, SSIM: 0.8518

Training Epoch 6/100: 40%|████████████████████████████████████████▉ | 499/1243 [04:52<05:54, 2.10it/s][Epoch 006/100] [Step 0500/1243] G\_Loss: 0.0528, D\_Loss: 6.7685, PSNR: 30.82, SSIM: 0.8842

Training Epoch 6/100: 48%|█████████████████████████████████████████████████▏ | 599/1243 [05:40<05:06, 2.10it/s][Epoch 006/100] [Step 0600/1243] G\_Loss: 0.0593, D\_Loss: 6.6797, PSNR: 29.72, SSIM: 0.9013

Training Epoch 6/100: 56%|█████████████████████████████████████████████████████████▎ | 699/1243 [06:28<04:19, 2.10it/s][Epoch 006/100] [Step 0700/1243] G\_Loss: 0.0519, D\_Loss: 6.7751, PSNR: 31.03, SSIM: 0.8922

Training Epoch 6/100: 64%|█████████████████████████████████████████████████████████████████▌ | 799/1243 [07:16<03:31, 2.10it/s][Epoch 006/100] [Step 0800/1243] G\_Loss: 0.0555, D\_Loss: 6.8166, PSNR: 30.36, SSIM: 0.8853

Training Epoch 6/100: 72%|█████████████████████████████████████████████████████████████████████████▊ | 899/1243 [08:04<02:43, 2.10it/s][Epoch 006/100] [Step 0900/1243] G\_Loss: 0.0519, D\_Loss: 6.8020, PSNR: 31.07, SSIM: 0.9050

Training Epoch 6/100: 80%|█████████████████████████████████████████████████████████████████████████████████▉ | 999/1243 [08:51<01:56, 2.10it/s][Epoch 006/100] [Step 1000/1243] G\_Loss: 0.0464, D\_Loss: 6.9110, PSNR: 32.17, SSIM: 0.9104

Training Epoch 6/100: 88%|█████████████████████████████████████████████████████████████████████████████████████████▎ | 1099/1243 [09:39<01:08, 2.10it/s][Epoch 006/100] [Step 1100/1243] G\_Loss: 0.0443, D\_Loss: 6.8432, PSNR: 32.04, SSIM: 0.9303

Training Epoch 6/100: 96%|█████████████████████████████████████████████████████████████████████████████████████████████████▍ | 1199/1243 [10:27<00:21, 2.09it/s][Epoch 006/100] [Step 1200/1243] G\_Loss: 0.0580, D\_Loss: 6.9093, PSNR: 29.98, SSIM: 0.8900

======== Epoch 006 ========

Gen Loss Avg: 0.0519

Disc Loss Avg: 6.7464

Validation PSNR: 31.70 dB

Validation SSIM: 0.8931

Current LR: 1.00e-04

[INFO] Saved Best Checkpoint: ./checkpoints\best\_gen\_epoch006.pth

Training Epoch 7/100: 8%|████████▏ | 99/1243 [01:50<09:06, 2.10it/s][Epoch 007/100] [Step 0100/1243] G\_Loss: 0.0482, D\_Loss: 6.8321, PSNR: 31.32, SSIM: 0.9283

Training Epoch 7/100: 16%|████████████████▎ | 199/1243 [02:38<08:17, 2.10it/s][Epoch 007/100] [Step 0200/1243] G\_Loss: 0.0466, D\_Loss: 6.9208, PSNR: 32.25, SSIM: 0.8777

Training Epoch 7/100: 24%|████████████████████████▌ | 299/1243 [03:26<07:30, 2.10it/s][Epoch 007/100] [Step 0300/1243] G\_Loss: 0.0440, D\_Loss: 7.0816, PSNR: 32.16, SSIM: 0.9037

Training Epoch 7/100: 32%|████████████████████████████████▋ | 399/1243 [04:13<06:41, 2.10it/s][Epoch 007/100] [Step 0400/1243] G\_Loss: 0.0536, D\_Loss: 7.0352, PSNR: 30.87, SSIM: 0.9051

Training Epoch 7/100: 40%|████████████████████████████████████████▉ | 499/1243 [05:01<05:54, 2.10it/s][Epoch 007/100] [Step 0500/1243] G\_Loss: 0.0357, D\_Loss: 7.0855, PSNR: 33.93, SSIM: 0.9257

Training Epoch 7/100: 48%|█████████████████████████████████████████████████▏ | 599/1243 [05:49<05:08, 2.09it/s][Epoch 007/100] [Step 0600/1243] G\_Loss: 0.0522, D\_Loss: 7.1456, PSNR: 31.11, SSIM: 0.8929

Training Epoch 7/100: 56%|█████████████████████████████████████████████████████████▎ | 699/1243 [06:39<04:39, 1.95it/s][Epoch 007/100] [Step 0700/1243] G\_Loss: 0.0471, D\_Loss: 7.1868, PSNR: 31.84, SSIM: 0.8880

Training Epoch 7/100: 64%|█████████████████████████████████████████████████████████████████▌ | 799/1243 [07:31<03:31, 2.10it/s][Epoch 007/100] [Step 0800/1243] G\_Loss: 0.0472, D\_Loss: 7.1520, PSNR: 31.44, SSIM: 0.9060

Training Epoch 7/100: 72%|█████████████████████████████████████████████████████████████████████████▊ | 899/1243 [08:18<02:44, 2.10it/s][Epoch 007/100] [Step 0900/1243] G\_Loss: 0.0619, D\_Loss: 7.1745, PSNR: 29.67, SSIM: 0.8750

Training Epoch 7/100: 80%|█████████████████████████████████████████████████████████████████████████████████▉ | 999/1243 [09:06<01:56, 2.10it/s][Epoch 007/100] [Step 1000/1243] G\_Loss: 0.0471, D\_Loss: 7.1442, PSNR: 31.97, SSIM: 0.8967

Training Epoch 7/100: 88%|█████████████████████████████████████████████████████████████████████████████████████████▎ | 1099/1243 [09:54<01:08, 2.10it/s][Epoch 007/100] [Step 1100/1243] G\_Loss: 0.0426, D\_Loss: 7.2951, PSNR: 32.35, SSIM: 0.9157

Training Epoch 7/100: 96%|█████████████████████████████████████████████████████████████████████████████████████████████████▍ | 1199/1243 [10:43<00:22, 1.95it/s][Epoch 007/100] [Step 1200/1243] G\_Loss: 0.0449, D\_Loss: 7.3078, PSNR: 32.23, SSIM: 0.8785

======== Epoch 007 ========

Gen Loss Avg: 0.0502

Disc Loss Avg: 7.0809

Validation PSNR: 32.21 dB

Validation SSIM: 0.9049

Current LR: 1.00e-04

[INFO] Saved Best Checkpoint: ./checkpoints\best\_gen\_epoch007.pth

Training Epoch 8/100: 8%|████████▏ | 99/1243 [01:40<09:01, 2.11it/s][Epoch 008/100] [Step 0100/1243] G\_Loss: 0.0399, D\_Loss: 7.3328, PSNR: 33.00, SSIM: 0.9285

Training Epoch 8/100: 16%|████████████████▎ | 199/1243 [02:28<08:17, 2.10it/s][Epoch 008/100] [Step 0200/1243] G\_Loss: 0.0406, D\_Loss: 7.3641, PSNR: 32.70, SSIM: 0.9126

Training Epoch 8/100: 24%|████████████████████████▌ | 299/1243 [03:15<07:28, 2.10it/s][Epoch 008/100] [Step 0300/1243] G\_Loss: 0.0475, D\_Loss: 7.3574, PSNR: 32.23, SSIM: 0.9140

Training Epoch 8/100: 32%|████████████████████████████████▋ | 399/1243 [04:03<06:42, 2.09it/s][Epoch 008/100] [Step 0400/1243] G\_Loss: 0.0555, D\_Loss: 7.3561, PSNR: 29.93, SSIM: 0.9296

Training Epoch 8/100: 40%|████████████████████████████████████████▉ | 499/1243 [04:51<05:53, 2.10it/s][Epoch 008/100] [Step 0500/1243] G\_Loss: 0.0504, D\_Loss: 7.3834, PSNR: 30.95, SSIM: 0.8959

Training Epoch 8/100: 48%|█████████████████████████████████████████████████▏ | 599/1243 [05:39<05:06, 2.10it/s][Epoch 008/100] [Step 0600/1243] G\_Loss: 0.0504, D\_Loss: 7.4435, PSNR: 30.78, SSIM: 0.8979

Training Epoch 8/100: 56%|█████████████████████████████████████████████████████████▎ | 699/1243 [06:27<04:19, 2.10it/s][Epoch 008/100] [Step 0700/1243] G\_Loss: 0.0552, D\_Loss: 7.4132, PSNR: 31.05, SSIM: 0.9136

Training Epoch 8/100: 64%|█████████████████████████████████████████████████████████████████▌ | 799/1243 [07:14<03:31, 2.10it/s][Epoch 008/100] [Step 0800/1243] G\_Loss: 0.0483, D\_Loss: 7.4238, PSNR: 31.18, SSIM: 0.9153

Training Epoch 8/100: 72%|█████████████████████████████████████████████████████████████████████████▊ | 899/1243 [08:02<02:44, 2.10it/s][Epoch 008/100] [Step 0900/1243] G\_Loss: 0.0428, D\_Loss: 7.5385, PSNR: 32.47, SSIM: 0.8967

Training Epoch 8/100: 80%|█████████████████████████████████████████████████████████████████████████████████▉ | 999/1243 [08:50<01:56, 2.10it/s][Epoch 008/100] [Step 1000/1243] G\_Loss: 0.0563, D\_Loss: 7.5471, PSNR: 30.65, SSIM: 0.8740

Training Epoch 8/100: 88%|█████████████████████████████████████████████████████████████████████████████████████████▎ | 1099/1243 [09:38<01:08, 2.10it/s][Epoch 008/100] [Step 1100/1243] G\_Loss: 0.0411, D\_Loss: 7.4742, PSNR: 32.67, SSIM: 0.9195

Training Epoch 8/100: 96%|█████████████████████████████████████████████████████████████████████████████████████████████████▍ | 1199/1243 [10:26<00:20, 2.10it/s][Epoch 008/100] [Step 1200/1243] G\_Loss: 0.0441, D\_Loss: 7.5534, PSNR: 32.18, SSIM: 0.9367

======== Epoch 008 ========

Gen Loss Avg: 0.0483

Disc Loss Avg: 7.4051

Validation PSNR: 31.92 dB

Validation SSIM: 0.9069

Current LR: 1.00e-04

Training Epoch 9/100: 8%|████████▏ | 99/1243 [01:40<09:05, 2.10it/s][Epoch 009/100] [Step 0100/1243] G\_Loss: 0.0413, D\_Loss: 7.6036, PSNR: 32.15, SSIM: 0.9141

Training Epoch 9/100: 16%|████████████████▎ | 199/1243 [02:28<08:16, 2.10it/s][Epoch 009/100] [Step 0200/1243] G\_Loss: 0.0444, D\_Loss: 7.6403, PSNR: 31.89, SSIM: 0.9115

Training Epoch 9/100: 24%|████████████████████████▌ | 299/1243 [03:16<07:29, 2.10it/s][Epoch 009/100] [Step 0300/1243] G\_Loss: 0.0475, D\_Loss: 7.7313, PSNR: 32.06, SSIM: 0.8986

Training Epoch 9/100: 32%|████████████████████████████████▋ | 399/1243 [04:03<06:42, 2.10it/s][Epoch 009/100] [Step 0400/1243] G\_Loss: 0.0371, D\_Loss: 7.7147, PSNR: 33.64, SSIM: 0.9316

Training Epoch 9/100: 40%|████████████████████████████████████████▉ | 499/1243 [04:51<05:54, 2.10it/s][Epoch 009/100] [Step 0500/1243] G\_Loss: 0.0448, D\_Loss: 7.7975, PSNR: 32.91, SSIM: 0.8945

Training Epoch 9/100: 48%|█████████████████████████████████████████████████▏ | 599/1243 [05:39<05:06, 2.10it/s][Epoch 009/100] [Step 0600/1243] G\_Loss: 0.0508, D\_Loss: 7.7506, PSNR: 31.09, SSIM: 0.9071

Training Epoch 9/100: 56%|█████████████████████████████████████████████████████████▎ | 699/1243 [06:27<04:19, 2.09it/s][Epoch 009/100] [Step 0700/1243] G\_Loss: 0.0597, D\_Loss: 7.7219, PSNR: 29.99, SSIM: 0.8911

Training Epoch 9/100: 64%|█████████████████████████████████████████████████████████████████▌ | 799/1243 [07:15<03:31, 2.10it/s][Epoch 009/100] [Step 0800/1243] G\_Loss: 0.0457, D\_Loss: 7.8340, PSNR: 31.55, SSIM: 0.9061

Training Epoch 9/100: 72%|█████████████████████████████████████████████████████████████████████████▊ | 899/1243 [08:03<02:44, 2.10it/s][Epoch 009/100] [Step 0900/1243] G\_Loss: 0.0544, D\_Loss: 7.6597, PSNR: 30.51, SSIM: 0.9042

Training Epoch 9/100: 80%|█████████████████████████████████████████████████████████████████████████████████▉ | 999/1243 [08:50<01:56, 2.10it/s][Epoch 009/100] [Step 1000/1243] G\_Loss: 0.0548, D\_Loss: 7.8597, PSNR: 30.29, SSIM: 0.9003

Training Epoch 9/100: 88%|█████████████████████████████████████████████████████████████████████████████████████████▎ | 1099/1243 [09:38<01:08, 2.10it/s][Epoch 009/100] [Step 1100/1243] G\_Loss: 0.0405, D\_Loss: 7.9049, PSNR: 33.23, SSIM: 0.9253

Training Epoch 9/100: 96%|█████████████████████████████████████████████████████████████████████████████████████████████████▍ | 1199/1243 [10:26<00:20, 2.10it/s][Epoch 009/100] [Step 1200/1243] G\_Loss: 0.0537, D\_Loss: 7.9112, PSNR: 30.81, SSIM: 0.8978

======== Epoch 009 ========

Gen Loss Avg: 0.0475

Disc Loss Avg: 7.7272

Validation PSNR: 32.23 dB

Validation SSIM: 0.9084

Current LR: 1.00e-04

[INFO] Saved Best Checkpoint: ./checkpoints\best\_gen\_epoch009.pth

Training Epoch 10/100: 8%|████████ | 99/1243 [01:42<09:03, 2.11it/s][Epoch 010/100] [Step 0100/1243] G\_Loss: 0.0504, D\_Loss: 7.8452, PSNR: 30.93, SSIM: 0.8986

Training Epoch 10/100: 16%|████████████████▏ | 199/1243 [02:29<08:15, 2.11it/s][Epoch 010/100] [Step 0200/1243] G\_Loss: 0.0439, D\_Loss: 7.9958, PSNR: 32.36, SSIM: 0.9242

Training Epoch 10/100: 24%|████████████████████████▎ | 299/1243 [03:17<07:28, 2.10it/s][Epoch 010/100] [Step 0300/1243] G\_Loss: 0.0489, D\_Loss: 7.8902, PSNR: 31.80, SSIM: 0.9036

Training Epoch 10/100: 32%|████████████████████████████████▍ | 399/1243 [04:05<06:41, 2.10it/s][Epoch 010/100] [Step 0400/1243] G\_Loss: 0.0419, D\_Loss: 7.9747, PSNR: 32.20, SSIM: 0.9219

Training Epoch 10/100: 40%|████████████████████████████████████████▌ | 499/1243 [04:53<05:54, 2.10it/s][Epoch 010/100] [Step 0500/1243] G\_Loss: 0.0471, D\_Loss: 8.0509, PSNR: 31.57, SSIM: 0.9293

Training Epoch 10/100: 48%|████████████████████████████████████████████████▋ | 599/1243 [05:40<05:06, 2.10it/s][Epoch 010/100] [Step 0600/1243] G\_Loss: 0.0399, D\_Loss: 8.0521, PSNR: 33.22, SSIM: 0.9309

Training Epoch 10/100: 56%|████████████████████████████████████████████████████████▊ | 699/1243 [06:28<04:19, 2.10it/s][Epoch 010/100] [Step 0700/1243] G\_Loss: 0.0411, D\_Loss: 8.1615, PSNR: 32.87, SSIM: 0.9172

Training Epoch 10/100: 64%|████████████████████████████████████████████████████████████████▉ | 799/1243 [07:16<03:31, 2.10it/s][Epoch 010/100] [Step 0800/1243] G\_Loss: 0.0481, D\_Loss: 8.1850, PSNR: 31.63, SSIM: 0.8837

Training Epoch 10/100: 72%|█████████████████████████████████████████████████████████████████████████ | 899/1243 [08:04<02:43, 2.10it/s][Epoch 010/100] [Step 0900/1243] G\_Loss: 0.0499, D\_Loss: 8.1490, PSNR: 31.16, SSIM: 0.9095

Training Epoch 10/100: 80%|█████████████████████████████████████████████████████████████████████████████████▏ | 999/1243 [08:52<01:56, 2.10it/s][Epoch 010/100] [Step 1000/1243] G\_Loss: 0.0439, D\_Loss: 8.1210, PSNR: 33.08, SSIM: 0.9063

Training Epoch 10/100: 88%|████████████████████████████████████████████████████████████████████████████████████████▍ | 1099/1243 [09:40<01:08, 2.10it/s][Epoch 010/100] [Step 1100/1243] G\_Loss: 0.0487, D\_Loss: 8.1661, PSNR: 31.15, SSIM: 0.8913

Training Epoch 10/100: 96%|████████████████████████████████████████████████████████████████████████████████████████████████▍ | 1199/1243 [10:27<00:21, 2.09it/s][Epoch 010/100] [Step 1200/1243] G\_Loss: 0.0492, D\_Loss: 8.1456, PSNR: 31.05, SSIM: 0.9285

======== Epoch 010 ========

Gen Loss Avg: 0.0459

Disc Loss Avg: 8.0558

Validation PSNR: 32.45 dB

Validation SSIM: 0.9145

Current LR: 1.00e-04

[INFO] Saved Best Checkpoint: ./checkpoints\best\_gen\_epoch010.pth

Training Epoch 11/100: 8%|████████ | 99/1243 [01:43<09:05, 2.10it/s][Epoch 011/100] [Step 0100/1243] G\_Loss: 0.0342, D\_Loss: 8.3492, PSNR: 34.35, SSIM: 0.9052

Training Epoch 11/100: 16%|████████████████▏ | 199/1243 [02:31<08:14, 2.11it/s][Epoch 011/100] [Step 0200/1243] G\_Loss: 0.0400, D\_Loss: 8.2687, PSNR: 32.47, SSIM: 0.9076

Training Epoch 11/100: 24%|████████████████████████▎ | 299/1243 [03:18<07:28, 2.10it/s][Epoch 011/100] [Step 0300/1243] G\_Loss: 0.0480, D\_Loss: 8.2564, PSNR: 31.62, SSIM: 0.8971

Training Epoch 11/100: 32%|████████████████████████████████▍ | 399/1243 [04:06<06:41, 2.10it/s][Epoch 011/100] [Step 0400/1243] G\_Loss: 0.0406, D\_Loss: 8.3041, PSNR: 32.71, SSIM: 0.9262

Training Epoch 11/100: 40%|████████████████████████████████████████▌ | 499/1243 [04:54<05:54, 2.10it/s][Epoch 011/100] [Step 0500/1243] G\_Loss: 0.0578, D\_Loss: 8.2389, PSNR: 29.99, SSIM: 0.8992

Training Epoch 11/100: 48%|████████████████████████████████████████████████▋ | 599/1243 [05:42<05:06, 2.10it/s][Epoch 011/100] [Step 0600/1243] G\_Loss: 0.0482, D\_Loss: 8.3579, PSNR: 31.27, SSIM: 0.9108

Training Epoch 11/100: 56%|████████████████████████████████████████████████████████▊ | 699/1243 [06:29<04:18, 2.10it/s][Epoch 011/100] [Step 0700/1243] G\_Loss: 0.0489, D\_Loss: 8.3851, PSNR: 31.62, SSIM: 0.8856

Training Epoch 11/100: 64%|████████████████████████████████████████████████████████████████▉ | 799/1243 [07:17<03:31, 2.10it/s][Epoch 011/100] [Step 0800/1243] G\_Loss: 0.0496, D\_Loss: 8.1657, PSNR: 31.36, SSIM: 0.9101

Training Epoch 11/100: 72%|█████████████████████████████████████████████████████████████████████████ | 899/1243 [08:05<02:44, 2.09it/s][Epoch 011/100] [Step 0900/1243] G\_Loss: 0.0463, D\_Loss: 8.4007, PSNR: 31.77, SSIM: 0.9114

Training Epoch 11/100: 80%|█████████████████████████████████████████████████████████████████████████████████▏ | 999/1243 [08:53<01:56, 2.09it/s][Epoch 011/100] [Step 1000/1243] G\_Loss: 0.0446, D\_Loss: 8.4421, PSNR: 32.13, SSIM: 0.9203

Training Epoch 11/100: 88%|████████████████████████████████████████████████████████████████████████████████████████▍ | 1099/1243 [09:41<01:08, 2.09it/s][Epoch 011/100] [Step 1100/1243] G\_Loss: 0.0446, D\_Loss: 8.3447, PSNR: 31.90, SSIM: 0.9316

Training Epoch 11/100: 96%|████████████████████████████████████████████████████████████████████████████████████████████████▍ | 1199/1243 [10:29<00:20, 2.10it/s][Epoch 011/100] [Step 1200/1243] G\_Loss: 0.0499, D\_Loss: 8.3768, PSNR: 31.15, SSIM: 0.9169

======== Epoch 011 ========

Gen Loss Avg: 0.0447

Disc Loss Avg: 8.3289

Validation PSNR: 32.54 dB

Validation SSIM: 0.9103

Current LR: 1.00e-04

[INFO] Saved Best Checkpoint: ./checkpoints\best\_gen\_epoch011.pth

Training Epoch 12/100: 8%|████████ | 99/1243 [01:41<09:02, 2.11it/s][Epoch 012/100] [Step 0100/1243] G\_Loss: 0.0476, D\_Loss: 8.3811, PSNR: 31.60, SSIM: 0.9189

Training Epoch 12/100: 16%|████████████████▏ | 199/1243 [02:29<08:17, 2.10it/s][Epoch 012/100] [Step 0200/1243] G\_Loss: 0.0486, D\_Loss: 8.4685, PSNR: 30.89, SSIM: 0.9112

Training Epoch 12/100: 24%|████████████████████████▎ | 299/1243 [03:16<07:29, 2.10it/s][Epoch 012/100] [Step 0300/1243] G\_Loss: 0.0419, D\_Loss: 8.4574, PSNR: 32.75, SSIM: 0.9314

Training Epoch 12/100: 32%|████████████████████████████████▍ | 399/1243 [04:04<06:42, 2.10it/s][Epoch 012/100] [Step 0400/1243] G\_Loss: 0.0513, D\_Loss: 8.4474, PSNR: 30.72, SSIM: 0.9136

Training Epoch 12/100: 40%|████████████████████████████████████████▌ | 499/1243 [04:52<05:54, 2.10it/s][Epoch 012/100] [Step 0500/1243] G\_Loss: 0.0339, D\_Loss: 8.5324, PSNR: 34.09, SSIM: 0.9397

Training Epoch 12/100: 48%|████████████████████████████████████████████████▋ | 599/1243 [05:40<05:07, 2.10it/s][Epoch 012/100] [Step 0600/1243] G\_Loss: 0.0464, D\_Loss: 8.5166, PSNR: 31.88, SSIM: 0.9075

Training Epoch 12/100: 56%|████████████████████████████████████████████████████████▊ | 699/1243 [06:28<04:19, 2.10it/s][Epoch 012/100] [Step 0700/1243] G\_Loss: 0.0423, D\_Loss: 8.5026, PSNR: 32.75, SSIM: 0.9084

Training Epoch 12/100: 64%|████████████████████████████████████████████████████████████████▉ | 799/1243 [07:16<03:32, 2.09it/s][Epoch 012/100] [Step 0800/1243] G\_Loss: 0.0434, D\_Loss: 8.5658, PSNR: 32.20, SSIM: 0.9302

Training Epoch 12/100: 72%|█████████████████████████████████████████████████████████████████████████ | 899/1243 [08:04<02:44, 2.09it/s][Epoch 012/100] [Step 0900/1243] G\_Loss: 0.0467, D\_Loss: 8.5688, PSNR: 31.53, SSIM: 0.9008

Training Epoch 12/100: 80%|█████████████████████████████████████████████████████████████████████████████████▏ | 999/1243 [08:52<01:56, 2.10it/s][Epoch 012/100] [Step 1000/1243] G\_Loss: 0.0364, D\_Loss: 8.6340, PSNR: 33.82, SSIM: 0.9356

Training Epoch 12/100: 88%|████████████████████████████████████████████████████████████████████████████████████████▍ | 1099/1243 [09:39<01:08, 2.10it/s][Epoch 012/100] [Step 1100/1243] G\_Loss: 0.0337, D\_Loss: 8.6299, PSNR: 34.46, SSIM: 0.9373

Training Epoch 12/100: 96%|████████████████████████████████████████████████████████████████████████████████████████████████▍ | 1199/1243 [10:29<00:22, 1.94it/s][Epoch 012/100] [Step 1200/1243] G\_Loss: 0.0404, D\_Loss: 8.6356, PSNR: 32.21, SSIM: 0.9404

======== Epoch 012 ========

Gen Loss Avg: 0.0441

Disc Loss Avg: 8.5174

Validation PSNR: 32.68 dB

Validation SSIM: 0.9189

Current LR: 1.00e-04

[INFO] Saved Best Checkpoint: ./checkpoints\best\_gen\_epoch012.pth

Training Epoch 13/100: 8%|████████ | 99/1243 [01:41<09:01, 2.11it/s][Epoch 013/100] [Step 0100/1243] G\_Loss: 0.0428, D\_Loss: 8.6187, PSNR: 32.98, SSIM: 0.9085

Training Epoch 13/100: 16%|████████████████▏ | 199/1243 [02:29<08:16, 2.10it/s][Epoch 013/100] [Step 0200/1243] G\_Loss: 0.0391, D\_Loss: 8.5619, PSNR: 32.48, SSIM: 0.9170

Training Epoch 13/100: 24%|████████████████████████▎ | 299/1243 [03:17<07:29, 2.10it/s][Epoch 013/100] [Step 0300/1243] G\_Loss: 0.0561, D\_Loss: 8.6361, PSNR: 30.96, SSIM: 0.8880

Training Epoch 13/100: 32%|████████████████████████████████▍ | 399/1243 [04:05<06:42, 2.10it/s][Epoch 013/100] [Step 0400/1243] G\_Loss: 0.0372, D\_Loss: 8.7161, PSNR: 33.16, SSIM: 0.9248

Training Epoch 13/100: 40%|████████████████████████████████████████▌ | 499/1243 [04:52<05:53, 2.10it/s][Epoch 013/100] [Step 0500/1243] G\_Loss: 0.0573, D\_Loss: 8.5687, PSNR: 29.35, SSIM: 0.8872

Training Epoch 13/100: 48%|████████████████████████████████████████████████▋ | 599/1243 [05:40<05:06, 2.10it/s][Epoch 013/100] [Step 0600/1243] G\_Loss: 0.0371, D\_Loss: 8.6607, PSNR: 33.27, SSIM: 0.9389

Training Epoch 13/100: 56%|████████████████████████████████████████████████████████▊ | 699/1243 [06:28<04:18, 2.10it/s][Epoch 013/100] [Step 0700/1243] G\_Loss: 0.0575, D\_Loss: 8.5137, PSNR: 29.55, SSIM: 0.9055

Training Epoch 13/100: 64%|████████████████████████████████████████████████████████████████▉ | 799/1243 [07:16<03:31, 2.10it/s][Epoch 013/100] [Step 0800/1243] G\_Loss: 0.0480, D\_Loss: 8.6551, PSNR: 30.88, SSIM: 0.9102

Training Epoch 13/100: 72%|█████████████████████████████████████████████████████████████████████████ | 899/1243 [08:04<02:43, 2.10it/s][Epoch 013/100] [Step 0900/1243] G\_Loss: 0.0531, D\_Loss: 8.5926, PSNR: 30.10, SSIM: 0.9180

Training Epoch 13/100: 80%|█████████████████████████████████████████████████████████████████████████████████▏ | 999/1243 [08:52<01:56, 2.10it/s][Epoch 013/100] [Step 1000/1243] G\_Loss: 0.0406, D\_Loss: 8.6816, PSNR: 32.47, SSIM: 0.9444

Training Epoch 13/100: 88%|████████████████████████████████████████████████████████████████████████████████████████▍ | 1099/1243 [09:39<01:08, 2.10it/s][Epoch 013/100] [Step 1100/1243] G\_Loss: 0.0362, D\_Loss: 8.6957, PSNR: 33.59, SSIM: 0.9467

Training Epoch 13/100: 96%|████████████████████████████████████████████████████████████████████████████████████████████████▍ | 1199/1243 [10:27<00:20, 2.10it/s][Epoch 013/100] [Step 1200/1243] G\_Loss: 0.0434, D\_Loss: 8.6663, PSNR: 32.31, SSIM: 0.9109

======== Epoch 013 ========

Gen Loss Avg: 0.0437

Disc Loss Avg: 8.6402

Validation PSNR: 32.75 dB

Validation SSIM: 0.9222

Current LR: 1.00e-04

[INFO] Saved Best Checkpoint: ./checkpoints\best\_gen\_epoch013.pth

Training Epoch 14/100: 8%|████████ | 99/1243 [01:41<09:06, 2.09it/s][Epoch 014/100] [Step 0100/1243] G\_Loss: 0.0378, D\_Loss: 8.6189, PSNR: 33.00, SSIM: 0.9390

Training Epoch 14/100: 16%|████████████████▏ | 199/1243 [02:29<08:19, 2.09it/s][Epoch 014/100] [Step 0200/1243] G\_Loss: 0.0452, D\_Loss: 8.7838, PSNR: 31.82, SSIM: 0.9230

Training Epoch 14/100: 24%|████████████████████████▎ | 299/1243 [03:17<07:28, 2.11it/s][Epoch 014/100] [Step 0300/1243] G\_Loss: 0.0509, D\_Loss: 8.7325, PSNR: 30.01, SSIM: 0.9195

Training Epoch 14/100: 32%|████████████████████████████████▍ | 399/1243 [04:04<06:41, 2.10it/s][Epoch 014/100] [Step 0400/1243] G\_Loss: 0.0401, D\_Loss: 8.7146, PSNR: 32.21, SSIM: 0.9510

Training Epoch 14/100: 40%|████████████████████████████████████████▌ | 499/1243 [04:52<05:54, 2.10it/s][Epoch 014/100] [Step 0500/1243] G\_Loss: 0.0381, D\_Loss: 8.7375, PSNR: 33.09, SSIM: 0.9053

Training Epoch 14/100: 48%|████████████████████████████████████████████████▋ | 599/1243 [05:40<05:06, 2.10it/s][Epoch 014/100] [Step 0600/1243] G\_Loss: 0.0487, D\_Loss: 8.7007, PSNR: 30.93, SSIM: 0.9112

Training Epoch 14/100: 56%|████████████████████████████████████████████████████████▊ | 699/1243 [06:28<04:18, 2.10it/s][Epoch 014/100] [Step 0700/1243] G\_Loss: 0.0427, D\_Loss: 8.7376, PSNR: 32.03, SSIM: 0.9444

Training Epoch 14/100: 64%|████████████████████████████████████████████████████████████████▉ | 799/1243 [07:16<03:31, 2.10it/s][Epoch 014/100] [Step 0800/1243] G\_Loss: 0.0429, D\_Loss: 8.8898, PSNR: 32.25, SSIM: 0.9212

Training Epoch 14/100: 72%|█████████████████████████████████████████████████████████████████████████ | 899/1243 [08:03<02:43, 2.10it/s][Epoch 014/100] [Step 0900/1243] G\_Loss: 0.0538, D\_Loss: 8.7460, PSNR: 30.54, SSIM: 0.9004

Training Epoch 14/100: 80%|█████████████████████████████████████████████████████████████████████████████████▏ | 999/1243 [08:51<01:56, 2.09it/s][Epoch 014/100] [Step 1000/1243] G\_Loss: 0.0393, D\_Loss: 8.7324, PSNR: 33.38, SSIM: 0.9136

Training Epoch 14/100: 88%|████████████████████████████████████████████████████████████████████████████████████████▍ | 1099/1243 [09:39<01:08, 2.10it/s][Epoch 014/100] [Step 1100/1243] G\_Loss: 0.0335, D\_Loss: 8.8685, PSNR: 34.15, SSIM: 0.9259

Training Epoch 14/100: 96%|████████████████████████████████████████████████████████████████████████████████████████████████▍ | 1199/1243 [10:27<00:20, 2.10it/s][Epoch 014/100] [Step 1200/1243] G\_Loss: 0.0358, D\_Loss: 9.0056, PSNR: 33.76, SSIM: 0.9387

======== Epoch 014 ========

Gen Loss Avg: 0.0428

Disc Loss Avg: 8.7697

Validation PSNR: 32.73 dB

Validation SSIM: 0.9172

Current LR: 1.00e-04

Training Epoch 15/100: 8%|████████ | 99/1243 [01:53<09:49, 1.94it/s][Epoch 015/100] [Step 0100/1243] G\_Loss: 0.0423, D\_Loss: 8.8765, PSNR: 32.45, SSIM: 0.9184

Training Epoch 15/100: 16%|████████████████▏ | 199/1243 [02:44<08:56, 1.95it/s][Epoch 015/100] [Step 0200/1243] G\_Loss: 0.0351, D\_Loss: 9.0276, PSNR: 33.80, SSIM: 0.9221

Training Epoch 15/100: 24%|████████████████████████▎ | 299/1243 [03:37<08:24, 1.87it/s][Epoch 015/100] [Step 0300/1243] G\_Loss: 0.0496, D\_Loss: 8.9218, PSNR: 31.07, SSIM: 0.9247

Training Epoch 15/100: 32%|████████████████████████████████▍ | 399/1243 [04:30<07:24, 1.90it/s][Epoch 015/100] [Step 0400/1243] G\_Loss: 0.0404, D\_Loss: 8.9436, PSNR: 32.84, SSIM: 0.9156

Training Epoch 15/100: 40%|████████████████████████████████████████▌ | 499/1243 [05:20<05:54, 2.10it/s][Epoch 015/100] [Step 0500/1243] G\_Loss: 0.0402, D\_Loss: 9.1506, PSNR: 32.88, SSIM: 0.9347

Training Epoch 15/100: 48%|████████████████████████████████████████████████▋ | 599/1243 [06:08<05:07, 2.09it/s][Epoch 015/100] [Step 0600/1243] G\_Loss: 0.0448, D\_Loss: 8.9109, PSNR: 31.43, SSIM: 0.9340

Training Epoch 15/100: 56%|████████████████████████████████████████████████████████▊ | 699/1243 [06:56<04:37, 1.96it/s][Epoch 015/100] [Step 0700/1243] G\_Loss: 0.0392, D\_Loss: 9.0925, PSNR: 32.87, SSIM: 0.9315

Training Epoch 15/100: 64%|████████████████████████████████████████████████████████████████▉ | 799/1243 [07:54<04:59, 1.48it/s][Epoch 015/100] [Step 0800/1243] G\_Loss: 0.0324, D\_Loss: 9.0410, PSNR: 34.42, SSIM: 0.9384

Training Epoch 15/100: 72%|█████████████████████████████████████████████████████████████████████████ | 899/1243 [08:43<02:44, 2.09it/s][Epoch 015/100] [Step 0900/1243] G\_Loss: 0.0447, D\_Loss: 8.8873, PSNR: 31.63, SSIM: 0.9324

Training Epoch 15/100: 80%|█████████████████████████████████████████████████████████████████████████████████▏ | 999/1243 [09:31<01:56, 2.09it/s][Epoch 015/100] [Step 1000/1243] G\_Loss: 0.0469, D\_Loss: 9.1219, PSNR: 31.74, SSIM: 0.8913

Training Epoch 15/100: 88%|████████████████████████████████████████████████████████████████████████████████████████▍ | 1099/1243 [10:19<01:08, 2.09it/s][Epoch 015/100] [Step 1100/1243] G\_Loss: 0.0431, D\_Loss: 8.7455, PSNR: 32.21, SSIM: 0.9224

Training Epoch 15/100: 96%|████████████████████████████████████████████████████████████████████████████████████████████████▍ | 1199/1243 [11:07<00:21, 2.09it/s][Epoch 015/100] [Step 1200/1243] G\_Loss: 0.0399, D\_Loss: 4.3395, PSNR: 32.70, SSIM: 0.9103

======== Epoch 015 ========

Gen Loss Avg: 0.0421

Disc Loss Avg: 8.4664

Validation PSNR: 32.96 dB

Validation SSIM: 0.9207

Current LR: 1.00e-04

[INFO] Saved Best Checkpoint: ./checkpoints\best\_gen\_epoch015.pth

Training Epoch 16/100: 8%|████████ | 99/1243 [01:54<09:03, 2.10it/s][Epoch 016/100] [Step 0100/1243] G\_Loss: 0.0585, D\_Loss: 4.8453, PSNR: 29.90, SSIM: 0.9068

Training Epoch 16/100: 16%|████████████████▏ | 199/1243 [02:42<08:17, 2.10it/s][Epoch 016/100] [Step 0200/1243] G\_Loss: 0.0432, D\_Loss: 5.2784, PSNR: 32.09, SSIM: 0.9290

Training Epoch 16/100: 24%|████████████████████████▎ | 299/1243 [03:30<07:31, 2.09it/s][Epoch 016/100] [Step 0300/1243] G\_Loss: 0.0391, D\_Loss: 5.4911, PSNR: 32.48, SSIM: 0.9406

Training Epoch 16/100: 32%|████████████████████████████████▍ | 399/1243 [04:19<06:42, 2.10it/s][Epoch 016/100] [Step 0400/1243] G\_Loss: 0.0475, D\_Loss: 5.6633, PSNR: 31.30, SSIM: 0.9251

Training Epoch 16/100: 40%|████████████████████████████████████████▌ | 499/1243 [05:11<06:23, 1.94it/s][Epoch 016/100] [Step 0500/1243] G\_Loss: 0.0357, D\_Loss: 5.9647, PSNR: 33.98, SSIM: 0.9251

Training Epoch 16/100: 48%|████████████████████████████████████████████████▋ | 599/1243 [06:05<05:40, 1.89it/s][Epoch 016/100] [Step 0600/1243] G\_Loss: 0.0349, D\_Loss: 5.8436, PSNR: 33.20, SSIM: 0.9559

Training Epoch 16/100: 56%|████████████████████████████████████████████████████████▊ | 699/1243 [07:01<05:02, 1.80it/s][Epoch 016/100] [Step 0700/1243] G\_Loss: 0.0366, D\_Loss: 6.0264, PSNR: 33.46, SSIM: 0.9462

Training Epoch 16/100: 64%|████████████████████████████████████████████████████████████████▉ | 799/1243 [07:56<03:52, 1.91it/s][Epoch 016/100] [Step 0800/1243] G\_Loss: 0.0401, D\_Loss: 6.0835, PSNR: 32.08, SSIM: 0.9246

Training Epoch 16/100: 72%|█████████████████████████████████████████████████████████████████████████ | 899/1243 [08:51<03:00, 1.91it/s][Epoch 016/100] [Step 0900/1243] G\_Loss: 0.0354, D\_Loss: 5.9750, PSNR: 32.86, SSIM: 0.9377

Training Epoch 16/100: 80%|█████████████████████████████████████████████████████████████████████████████████▏ | 999/1243 [09:46<02:08, 1.91it/s][Epoch 016/100] [Step 1000/1243] G\_Loss: 0.0362, D\_Loss: 6.1098, PSNR: 33.93, SSIM: 0.9342

Training Epoch 16/100: 88%|████████████████████████████████████████████████████████████████████████████████████████▍ | 1099/1243 [10:41<01:14, 1.93it/s][Epoch 016/100] [Step 1100/1243] G\_Loss: 0.0413, D\_Loss: 6.1636, PSNR: 32.64, SSIM: 0.9146

Training Epoch 16/100: 96%|████████████████████████████████████████████████████████████████████████████████████████████████▍ | 1199/1243 [11:36<00:23, 1.87it/s][Epoch 016/100] [Step 1200/1243] G\_Loss: 0.0366, D\_Loss: 6.4633, PSNR: 33.11, SSIM: 0.9342

======== Epoch 016 ========

Gen Loss Avg: 0.0415

Disc Loss Avg: 5.8062

Validation PSNR: 32.73 dB

Validation SSIM: 0.9208

Current LR: 1.00e-04

Training Epoch 17/100: 8%|████████ | 99/1243 [01:41<09:03, 2.11it/s][Epoch 017/100] [Step 0100/1243] G\_Loss: 0.0594, D\_Loss: 5.6200, PSNR: 30.03, SSIM: 0.8928

Training Epoch 17/100: 16%|████████████████▏ | 199/1243 [02:29<08:14, 2.11it/s][Epoch 017/100] [Step 0200/1243] G\_Loss: 0.0273, D\_Loss: 6.3859, PSNR: 35.64, SSIM: 0.9570

Training Epoch 17/100: 24%|████████████████████████▎ | 299/1243 [03:17<07:32, 2.09it/s][Epoch 017/100] [Step 0300/1243] G\_Loss: 0.0321, D\_Loss: 6.2678, PSNR: 33.60, SSIM: 0.9509

Training Epoch 17/100: 32%|████████████████████████████████▍ | 399/1243 [04:08<07:14, 1.94it/s][Epoch 017/100] [Step 0400/1243] G\_Loss: 0.0353, D\_Loss: 6.3336, PSNR: 33.93, SSIM: 0.9384

Training Epoch 17/100: 40%|████████████████████████████████████████▌ | 499/1243 [05:03<06:36, 1.87it/s][Epoch 017/100] [Step 0500/1243] G\_Loss: 0.0329, D\_Loss: 6.5115, PSNR: 34.32, SSIM: 0.9372

Training Epoch 17/100: 48%|████████████████████████████████████████████████▋ | 599/1243 [05:58<06:45, 1.59it/s][Epoch 017/100] [Step 0600/1243] G\_Loss: 0.0354, D\_Loss: 6.5110, PSNR: 33.78, SSIM: 0.9249

Training Epoch 17/100: 56%|████████████████████████████████████████████████████████▊ | 699/1243 [06:52<04:42, 1.93it/s][Epoch 017/100] [Step 0700/1243] G\_Loss: 0.0485, D\_Loss: 6.4165, PSNR: 31.13, SSIM: 0.9254

Training Epoch 17/100: 64%|████████████████████████████████████████████████████████████████▉ | 799/1243 [07:42<03:30, 2.11it/s][Epoch 017/100] [Step 0800/1243] G\_Loss: 0.0414, D\_Loss: 6.5248, PSNR: 32.52, SSIM: 0.9363

Training Epoch 17/100: 72%|█████████████████████████████████████████████████████████████████████████ | 899/1243 [08:30<02:43, 2.10it/s][Epoch 017/100] [Step 0900/1243] G\_Loss: 0.0348, D\_Loss: 6.7562, PSNR: 33.99, SSIM: 0.9226

Training Epoch 17/100: 80%|█████████████████████████████████████████████████████████████████████████████████▏ | 999/1243 [09:18<01:56, 2.10it/s][Epoch 017/100] [Step 1000/1243] G\_Loss: 0.0302, D\_Loss: 6.5189, PSNR: 34.72, SSIM: 0.9439

Training Epoch 17/100: 88%|████████████████████████████████████████████████████████████████████████████████████████▍ | 1099/1243 [10:06<01:08, 2.10it/s][Epoch 017/100] [Step 1100/1243] G\_Loss: 0.0461, D\_Loss: 6.5336, PSNR: 32.33, SSIM: 0.8955

Training Epoch 17/100: 96%|████████████████████████████████████████████████████████████████████████████████████████████████▍ | 1199/1243 [10:53<00:20, 2.10it/s][Epoch 017/100] [Step 1200/1243] G\_Loss: 0.0395, D\_Loss: 6.6915, PSNR: 33.29, SSIM: 0.9282

======== Epoch 017 ========

Gen Loss Avg: 0.0411

Disc Loss Avg: 6.5343

Validation PSNR: 32.74 dB

Validation SSIM: 0.9188

Current LR: 1.00e-04

Training Epoch 18/100: 8%|████████ | 99/1243 [01:42<09:08, 2.09it/s][Epoch 018/100] [Step 0100/1243] G\_Loss: 0.0296, D\_Loss: 6.8486, PSNR: 34.76, SSIM: 0.9404

Training Epoch 18/100: 16%|████████████████▏ | 199/1243 [02:29<08:16, 2.10it/s][Epoch 018/100] [Step 0200/1243] G\_Loss: 0.0363, D\_Loss: 6.9753, PSNR: 33.49, SSIM: 0.9412

Training Epoch 18/100: 24%|████████████████████████▎ | 299/1243 [03:17<07:28, 2.11it/s][Epoch 018/100] [Step 0300/1243] G\_Loss: 0.0361, D\_Loss: 6.7671, PSNR: 33.91, SSIM: 0.9289

Training Epoch 18/100: 32%|████████████████████████████████▍ | 399/1243 [04:05<06:41, 2.10it/s][Epoch 018/100] [Step 0400/1243] G\_Loss: 0.0286, D\_Loss: 6.9258, PSNR: 35.40, SSIM: 0.9466

Training Epoch 18/100: 40%|████████████████████████████████████████▌ | 499/1243 [04:53<05:53, 2.10it/s][Epoch 018/100] [Step 0500/1243] G\_Loss: 0.0404, D\_Loss: 7.0805, PSNR: 32.90, SSIM: 0.9185

Training Epoch 18/100: 48%|████████████████████████████████████████████████▋ | 599/1243 [05:40<05:07, 2.10it/s][Epoch 018/100] [Step 0600/1243] G\_Loss: 0.0387, D\_Loss: 6.9767, PSNR: 33.25, SSIM: 0.9199

Training Epoch 18/100: 56%|████████████████████████████████████████████████████████▊ | 699/1243 [06:28<04:19, 2.10it/s][Epoch 018/100] [Step 0700/1243] G\_Loss: 0.0335, D\_Loss: 7.1498, PSNR: 34.42, SSIM: 0.9367

Training Epoch 18/100: 64%|████████████████████████████████████████████████████████████████▉ | 799/1243 [07:16<03:31, 2.10it/s][Epoch 018/100] [Step 0800/1243] G\_Loss: 0.0413, D\_Loss: 6.8829, PSNR: 32.55, SSIM: 0.9121

Training Epoch 18/100: 72%|█████████████████████████████████████████████████████████████████████████ | 899/1243 [08:04<02:43, 2.10it/s][Epoch 018/100] [Step 0900/1243] G\_Loss: 0.0422, D\_Loss: 6.8483, PSNR: 32.12, SSIM: 0.9145

Training Epoch 18/100: 80%|█████████████████████████████████████████████████████████████████████████████████▏ | 999/1243 [08:52<01:56, 2.10it/s][Epoch 018/100] [Step 1000/1243] G\_Loss: 0.0400, D\_Loss: 7.3259, PSNR: 32.30, SSIM: 0.9292

Training Epoch 18/100: 88%|████████████████████████████████████████████████████████████████████████████████████████▍ | 1099/1243 [09:40<01:08, 2.10it/s][Epoch 018/100] [Step 1100/1243] G\_Loss: 0.0376, D\_Loss: 6.9851, PSNR: 32.79, SSIM: 0.9447

Training Epoch 18/100: 96%|████████████████████████████████████████████████████████████████████████████████████████████████▍ | 1199/1243 [10:27<00:20, 2.10it/s][Epoch 018/100] [Step 1200/1243] G\_Loss: 0.0492, D\_Loss: 7.2679, PSNR: 31.08, SSIM: 0.9229

======== Epoch 018 ========

Gen Loss Avg: 0.0406

Disc Loss Avg: 7.0091

Validation PSNR: 33.23 dB

Validation SSIM: 0.9247

Current LR: 1.00e-04

[INFO] Saved Best Checkpoint: ./checkpoints\best\_gen\_epoch018.pth

Training Epoch 19/100: 8%|████████ | 99/1243 [01:42<09:03, 2.10it/s][Epoch 019/100] [Step 0100/1243] G\_Loss: 0.0236, D\_Loss: 7.3330, PSNR: 37.01, SSIM: 0.9562

Training Epoch 19/100: 16%|████████████████▏ | 199/1243 [02:29<08:16, 2.10it/s][Epoch 019/100] [Step 0200/1243] G\_Loss: 0.0342, D\_Loss: 7.1647, PSNR: 33.41, SSIM: 0.9496

Training Epoch 19/100: 24%|████████████████████████▎ | 299/1243 [03:17<07:28, 2.10it/s][Epoch 019/100] [Step 0300/1243] G\_Loss: 0.0389, D\_Loss: 7.0367, PSNR: 33.64, SSIM: 0.8985

Training Epoch 19/100: 32%|████████████████████████████████▍ | 399/1243 [04:05<06:41, 2.10it/s][Epoch 019/100] [Step 0400/1243] G\_Loss: 0.0425, D\_Loss: 7.2126, PSNR: 32.44, SSIM: 0.9408

Training Epoch 19/100: 40%|████████████████████████████████████████▌ | 499/1243 [04:52<05:54, 2.10it/s][Epoch 019/100] [Step 0500/1243] G\_Loss: 0.0421, D\_Loss: 7.3877, PSNR: 32.90, SSIM: 0.9075

Training Epoch 19/100: 48%|████████████████████████████████████████████████▋ | 599/1243 [05:40<05:05, 2.10it/s][Epoch 019/100] [Step 0600/1243] G\_Loss: 0.0489, D\_Loss: 7.0130, PSNR: 31.90, SSIM: 0.8637

Training Epoch 19/100: 56%|████████████████████████████████████████████████████████▊ | 699/1243 [06:28<04:18, 2.10it/s][Epoch 019/100] [Step 0700/1243] G\_Loss: 0.0448, D\_Loss: 7.3766, PSNR: 31.91, SSIM: 0.9066

Training Epoch 19/100: 64%|████████████████████████████████████████████████████████████████▉ | 799/1243 [07:16<03:31, 2.10it/s][Epoch 019/100] [Step 0800/1243] G\_Loss: 0.0415, D\_Loss: 7.2394, PSNR: 32.64, SSIM: 0.9278

Training Epoch 19/100: 72%|█████████████████████████████████████████████████████████████████████████ | 899/1243 [08:03<02:43, 2.10it/s][Epoch 019/100] [Step 0900/1243] G\_Loss: 0.0433, D\_Loss: 7.3616, PSNR: 32.20, SSIM: 0.9213

Training Epoch 19/100: 80%|█████████████████████████████████████████████████████████████████████████████████▏ | 999/1243 [08:51<01:56, 2.10it/s][Epoch 019/100] [Step 1000/1243] G\_Loss: 0.0503, D\_Loss: 7.4304, PSNR: 30.66, SSIM: 0.9240

Training Epoch 19/100: 88%|████████████████████████████████████████████████████████████████████████████████████████▍ | 1099/1243 [09:39<01:08, 2.10it/s][Epoch 019/100] [Step 1100/1243] G\_Loss: 0.0437, D\_Loss: 7.3312, PSNR: 32.03, SSIM: 0.9130

Training Epoch 19/100: 96%|████████████████████████████████████████████████████████████████████████████████████████████████▍ | 1199/1243 [10:27<00:20, 2.10it/s][Epoch 019/100] [Step 1200/1243] G\_Loss: 0.0445, D\_Loss: 7.2788, PSNR: 31.11, SSIM: 0.9308

======== Epoch 019 ========

Gen Loss Avg: 0.0404

Disc Loss Avg: 7.3331

Validation PSNR: 33.15 dB

Validation SSIM: 0.9262

Current LR: 1.00e-04

Training Epoch 20/100: 8%|████████ | 99/1243 [01:41<09:06, 2.09it/s][Epoch 020/100] [Step 0100/1243] G\_Loss: 0.0427, D\_Loss: 7.2204, PSNR: 31.73, SSIM: 0.9387

Training Epoch 20/100: 16%|████████████████▏ | 199/1243 [02:29<08:15, 2.11it/s][Epoch 020/100] [Step 0200/1243] G\_Loss: 0.0402, D\_Loss: 7.2240, PSNR: 32.19, SSIM: 0.9211

Training Epoch 20/100: 24%|████████████████████████▎ | 299/1243 [03:16<07:28, 2.10it/s][Epoch 020/100] [Step 0300/1243] G\_Loss: 0.0380, D\_Loss: 7.5150, PSNR: 33.00, SSIM: 0.9416

Training Epoch 20/100: 32%|████████████████████████████████▍ | 399/1243 [04:04<06:41, 2.10it/s][Epoch 020/100] [Step 0400/1243] G\_Loss: 0.0472, D\_Loss: 7.4786, PSNR: 31.24, SSIM: 0.9084

Training Epoch 20/100: 40%|████████████████████████████████████████▌ | 499/1243 [04:52<05:53, 2.11it/s][Epoch 020/100] [Step 0500/1243] G\_Loss: 0.0452, D\_Loss: 7.5017, PSNR: 31.46, SSIM: 0.9280

Training Epoch 20/100: 48%|████████████████████████████████████████████████▋ | 599/1243 [05:40<05:07, 2.10it/s][Epoch 020/100] [Step 0600/1243] G\_Loss: 0.0289, D\_Loss: 7.6614, PSNR: 34.80, SSIM: 0.9310

Training Epoch 20/100: 56%|████████████████████████████████████████████████████████▊ | 699/1243 [06:27<04:18, 2.10it/s][Epoch 020/100] [Step 0700/1243] G\_Loss: 0.0310, D\_Loss: 7.3557, PSNR: 34.76, SSIM: 0.9324

Training Epoch 20/100: 64%|████████████████████████████████████████████████████████████████▉ | 799/1243 [07:15<03:31, 2.10it/s][Epoch 020/100] [Step 0800/1243] G\_Loss: 0.0444, D\_Loss: 7.6871, PSNR: 31.92, SSIM: 0.9293

Training Epoch 20/100: 72%|█████████████████████████████████████████████████████████████████████████ | 899/1243 [08:03<02:43, 2.10it/s][Epoch 020/100] [Step 0900/1243] G\_Loss: 0.0492, D\_Loss: 7.7283, PSNR: 31.66, SSIM: 0.8915

Training Epoch 20/100: 80%|█████████████████████████████████████████████████████████████████████████████████▏ | 999/1243 [08:51<01:56, 2.10it/s][Epoch 020/100] [Step 1000/1243] G\_Loss: 0.0361, D\_Loss: 7.8566, PSNR: 33.58, SSIM: 0.9405

Training Epoch 20/100: 88%|████████████████████████████████████████████████████████████████████████████████████████▍ | 1099/1243 [09:39<01:08, 2.10it/s][Epoch 020/100] [Step 1100/1243] G\_Loss: 0.0398, D\_Loss: 7.8422, PSNR: 33.42, SSIM: 0.9056

Training Epoch 20/100: 96%|████████████████████████████████████████████████████████████████████████████████████████████████▍ | 1199/1243 [10:26<00:20, 2.10it/s][Epoch 020/100] [Step 1200/1243] G\_Loss: 0.0434, D\_Loss: 7.6128, PSNR: 32.10, SSIM: 0.9215

======== Epoch 020 ========

Gen Loss Avg: 0.0397

Disc Loss Avg: 7.6435

Validation PSNR: 33.25 dB

Validation SSIM: 0.9273

Current LR: 1.00e-04