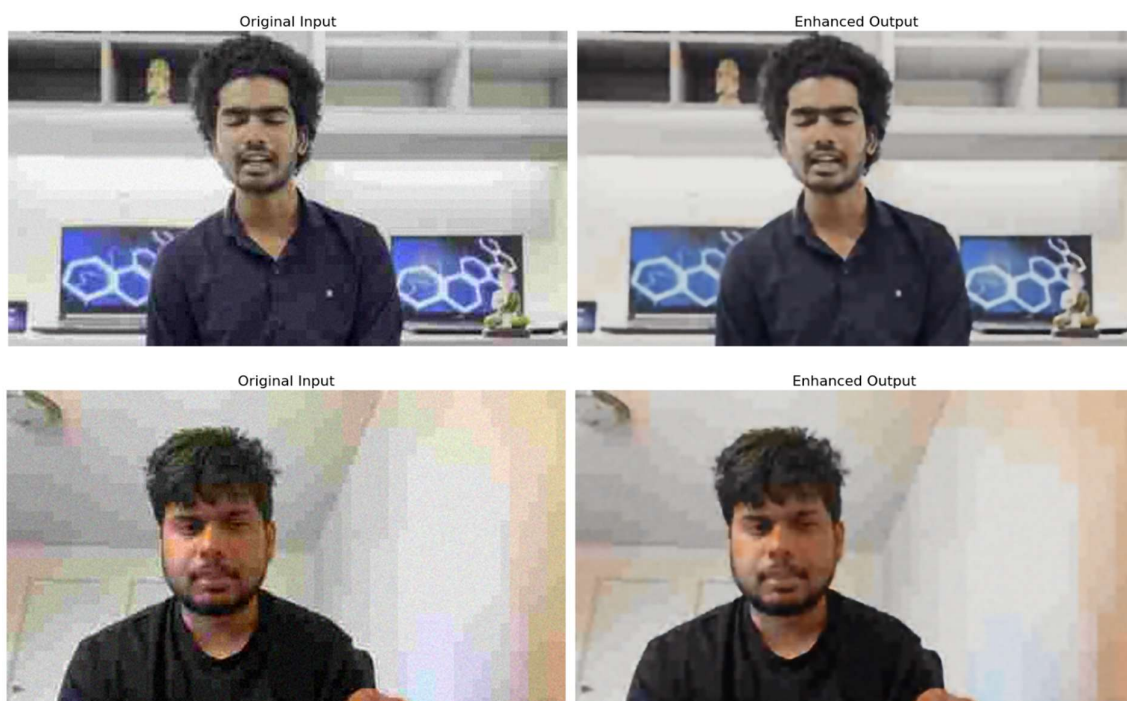


Results:



Processed in 0.2548 seconds (3.92 FPS).

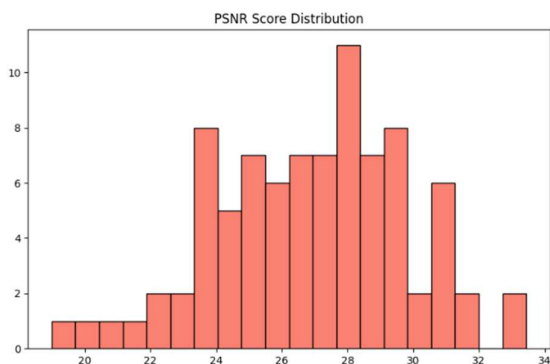
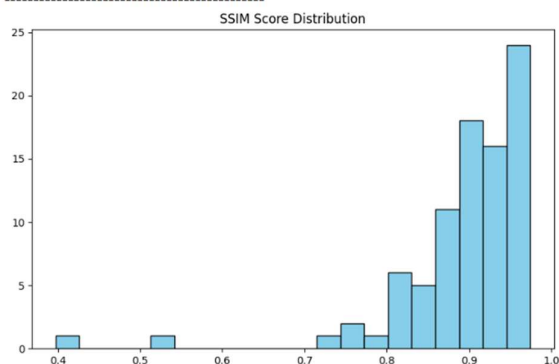


OPENVINO:



```
=====
CPU BENCHMARK (OpenVINO) - NUMERICAL SUMMARY
=====
Average SSIM: 0.8937 (Std Dev: 0.0859)
Average PSNR: 26.89 dB (Std Dev: 2.92)
Average FPS (System Throughput): 0.10 FPS
=====
```

```
=====
CPU BENCHMARK (OpenVINO) - GRAPHICAL ANALYSIS
=====
```



```
=====
CPU BENCHMARK (OpenVINO) - FINAL REPORT
=====
Average SSIM: 0.8937 (Std Dev: 0.0859)
Average PSNR: 26.89 dB (Std Dev: 2.92)
-----
--- Performance Analysis ---
Average Model FPS (Pure Computation): 0.14 FPS
Average System Throughput (w/ File I/O): 0.11 FPS
=====
```

```
=====
CPU BENCHMARK (OpenVINO) - FINAL REPORT
=====
Average SSIM: 0.8937 (Std Dev: 0.0859)
Average PSNR: 26.89 dB (Std Dev: 2.92)
-----
--- Performance Analysis ---
Average Model FPS (Pure Computation): 0.15 FPS
Average System Throughput (w/ File I/O): 0.15 FPS
=====
```

```

=====
STUDENT MODEL - AUTO-DETECT BENCHMARK REPORT
=====
Total Images Processed:      86
- 'Demo' Mode (Shrink First): 21 images
- 'Enhance' Mode (Direct):   65 images
-----
--- Model Performance (Pure Computation) ---
Average Model Inference Time: 0.0171 seconds/image
Average Model FPS:           58.48
-----
--- System Performance (includes File I/O) ---
Average Total Time per Image: 0.8601 seconds/image
Average System Throughput:    1.16 FPS
-----
Average SSIM Score (All):    0.8782

✅ All enhanced outputs and their corresponding inputs saved to: /content/student_auto_results/
=====

```

```

=====
STUDENT MODEL - AUTO-DETECT BENCHMARK REPORT
=====
Total Images Processed:      86
- 'Demo' Mode (Shrink First): 21 images
- 'Enhance' Mode (Direct):   65 images
-----
Average Inference Time:      0.0139 seconds/image
Average FPS:                 72.06
Average SSIM Score (All):    0.8782

```

```

=====
🚦 PYTORCH CPU BENCHMARK (UN-OPTIMIZED) - FINAL REPORT 🚦
=====
Average SSIM: 0.8937 (Std Dev: 0.0859)
Average PSNR: 26.89 dB (Std Dev: 2.91)
-----
--- Performance Analysis ---
Average Model FPS (Pure Computation): 0.05 FPS
Average System Throughput (w/ File I/O): 0.05 FPS
=====

```