

MedCLIP View Classification on IU-CXR Sanity Subset

Total samples (Frontal + Lateral): 53

Normalized accuracy: 0.4906 (26 / 53)

CLAHE accuracy: 0.4906 (26 / 53)

Misclassified (Normalized): 27

Misclassified (CLAHE): 27

How to read the confusion matrices:

- Rows = Ground Truth (GT) view, Columns = Predicted view.
- Order of classes: [Frontal, Lateral].
- Example (Normalized):

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[[ 5, 23],  
 [ 4, 21]]
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means:

- 5 frontal images correctly predicted as frontal
- 23 frontal images incorrectly predicted as lateral
- 4 lateral images incorrectly predicted as frontal
- 21 lateral images correctly predicted as lateral.

Timing (per-image, CPU-only, on local Intel Iris machine):

- Normalized avg: 105.66 ms
- CLAHE avg: 106.68 ms
- Max (normalized): 137.46 ms
- Max (CLAHE): 132.52 ms

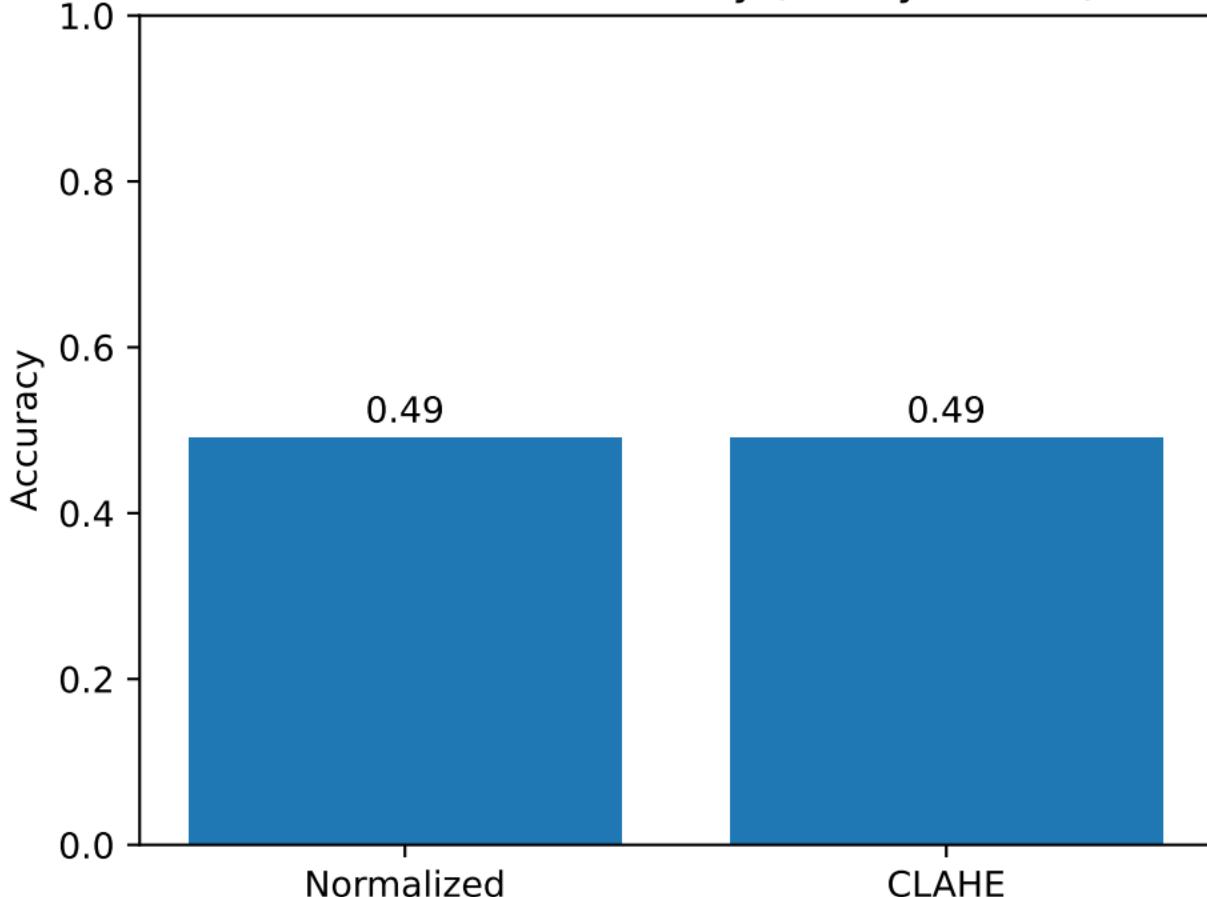
Confusion Matrix - Normalized

	Pred Frontal	Pred Lateral
GT Frontal	5	23
GT Lateral	4	21

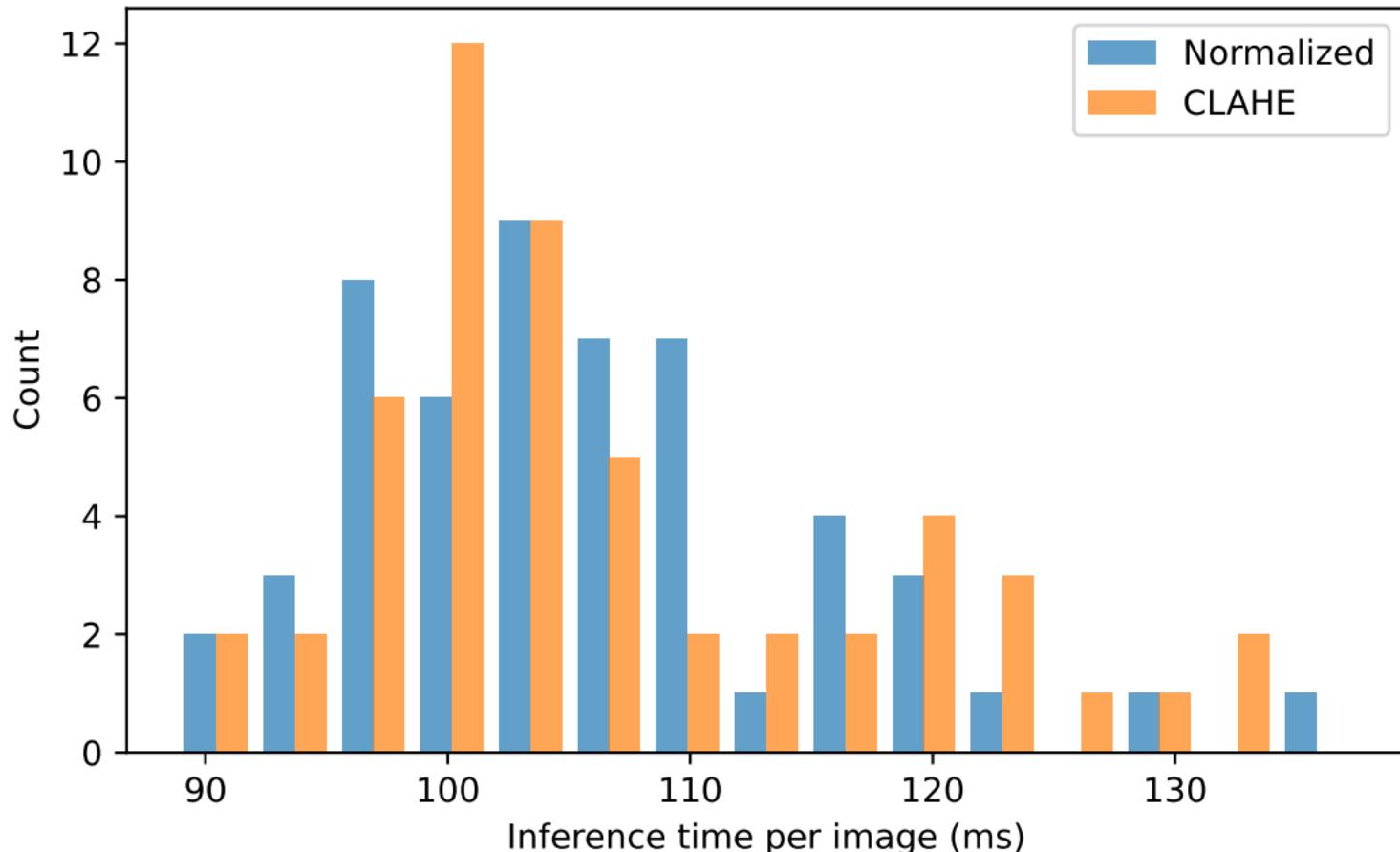
Confusion Matrix - CLAHE

	Pred Frontal	Pred Lateral
GT Frontal -	2	26
GT Lateral -	1	24

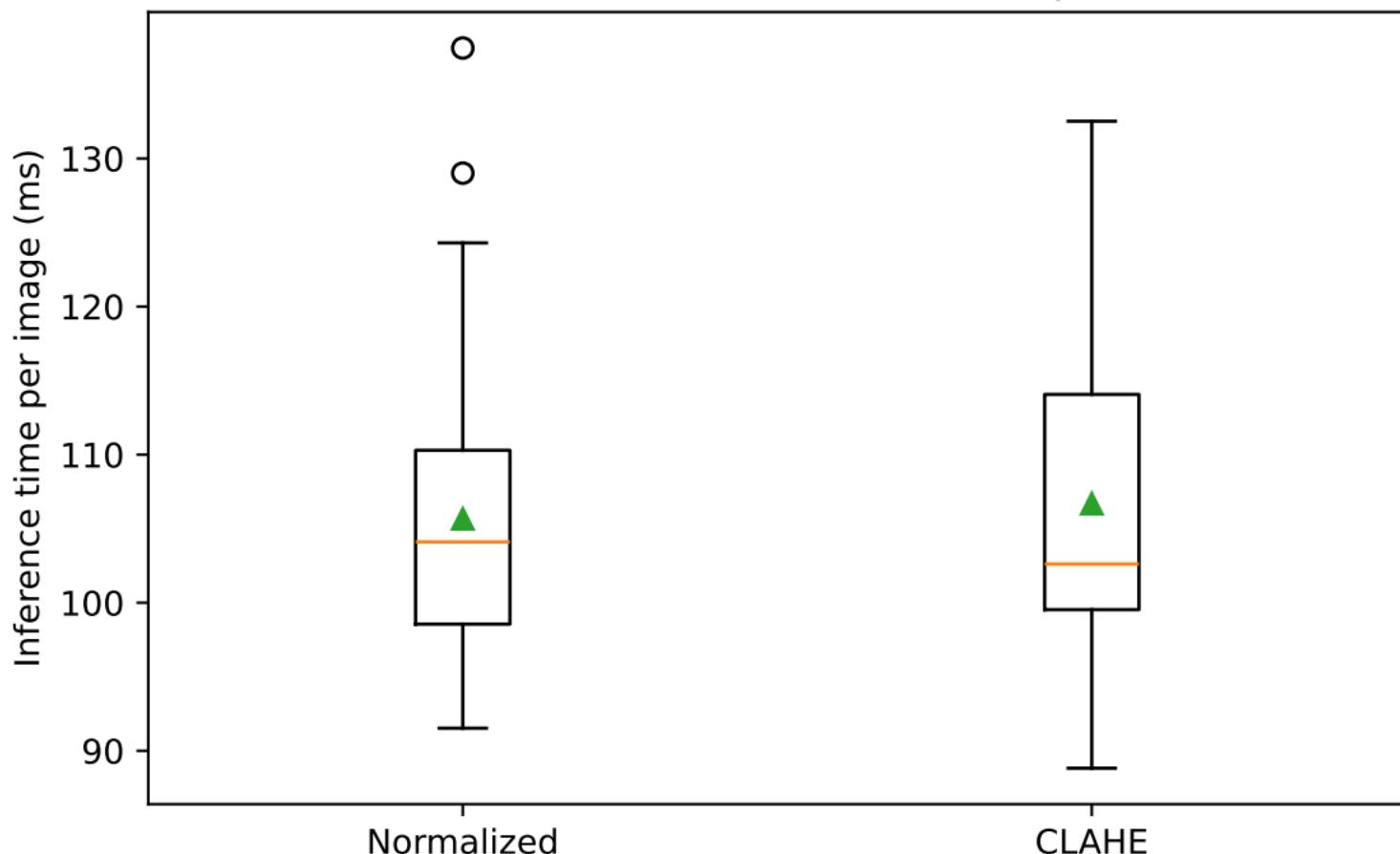
MedCLIP View Accuracy (Sanity Subset)



Per-image inference time distribution (CPU)



Inference time distribution (boxplot)



Per-image predictions (rows 1-20 of 53)

UID	Image_ID	GT_View	Normal_Pred	CLAHE_Pred	Normal_Inference_Time	CLAHE_Inference_Time	Pathology_Labels_14
206	206_IM-0697-6001.dcm.png	Frontal	Lateral	Lateral	116.60	127.10	cardiomegaly,lung_lesion
289	289_IM-1292-0001-0001.dcm.png	Frontal	Lateral	Lateral	96.27	97.17	edema,consolidation,pleural_effusion,support_devices
289	289_IM-1292-0001-0002.dcm.png	Lateral	Frontal	Lateral	107.69	118.23	edema,consolidation,pleural_effusion,support_devices
295	295_IM-1348-1001.dcm.png	Frontal	Lateral	Lateral	120.93	114.07	consolidation,pneumothorax,pleural_effusion,fracture
295	295_IM-1348-2001.dcm.png	Lateral	Lateral	Lateral	96.25	97.23	consolidation,pneumothorax,pleural_effusion,fracture
332	332_IM-1588-1001.dcm.png	Frontal	Lateral	Lateral	98.56	123.40	lung_opacity,pneumonia,pleural_effusion
332	332_IM-1588-2001.dcm.png	Lateral	Lateral	Lateral	91.72	99.53	lung_opacity,pneumonia,pleural_effusion
342	342_IM-1655-0001-0001.dcm.png	Frontal	Lateral	Lateral	108.45	98.79	cardiomegaly
342	342_IM-1655-0001-0002.dcm.png	Lateral	Lateral	Lateral	111.07	101.27	cardiomegaly
403	403_IM-2052-2001.dcm.png	Frontal	Lateral	Lateral	129.01	101.87	lung_opacity,fracture
403	403_IM-2052-1001.dcm.png	Lateral	Lateral	Lateral	91.52	90.16	lung_opacity,fracture
552	552_IM-2155-1001.dcm.png	Frontal	Frontal	Lateral	94.26	102.98	consolidation,pleural_effusion
552	552_IM-2155-2001.dcm.png	Lateral	Lateral	Lateral	102.19	118.53	consolidation,pleural_effusion
558	558_IM-2158-0001-0001.dcm.png	Frontal	Frontal	Lateral	119.86	132.52	consolidation,pneumothorax
558	558_IM-2158-0001-0002.dcm.png	Lateral	Lateral	Lateral	105.36	92.67	consolidation,pneumothorax
621	621_IM-2203-1001.dcm.png	Frontal	Lateral	Lateral	107.35	100.11	pneumonia,pneumothorax
621	621_IM-2203-2001.dcm.png	Lateral	Lateral	Lateral	106.40	105.87	pneumonia,pneumothorax
729	729_IM-2288-1001.dcm.png	Frontal	Lateral	Lateral	108.55	117.52	lung_opacity,lung_lesion,pneumothorax,pleural_effusion
729	729_IM-2288-2001.dcm.png	Lateral	Lateral	Lateral	137.46	131.28	lung_opacity,lung_lesion,pneumothorax,pleural_effusion
1007	1007_IM-0008-1001.dcm.png	Frontal	Lateral	Lateral	99.63	98.14	lung_opacity,pleural_effusion

Per-image predictions (rows 21-40 of 53)

UID	Image_ID	GT_View	Normal_Pred	CLAHE_Pred	Normal_Inference_Time	CLAHE_Inference_Time	Pathology_Labels_14
1007	1007_IM-0008-3001.dcm.png	Frontal	Frontal	Lateral	108.90	99.92	lung_opacity,pleural_effusion
1007	1007_IM-0008-2001.dcm.png	Lateral	Lateral	Lateral	98.68	102.06	lung_opacity,pleural_effusion
1053	1053_IM-0040-1001.dcm.png	Frontal	Lateral	Lateral	111.66	100.90	cardiomegaly,consolidation,atelectasis,pneumothorax
1053	1053_IM-0040-3003.dcm.png	Lateral	Frontal	Lateral	94.31	99.96	cardiomegaly,consolidation,atelectasis,pneumothorax
1059	1059_IM-0041-1001.dcm.png	Frontal	Lateral	Lateral	124.30	102.09	lung_opacity,pneumonia,pleural_effusion
1375	1375_IM-0241-1001.dcm.png	Frontal	Lateral	Lateral	102.86	97.89	cardiomegaly,edema,pneumonia
1375	1375_IM-0241-3001.dcm.png	Frontal	Lateral	Lateral	111.19	123.92	cardiomegaly,edema,pneumonia
1375	1375_IM-0241-4001.dcm.png	Lateral	Lateral	Lateral	110.30	118.65	cardiomegaly,edema,pneumonia
1437	1437_IM-0281-3001.dcm.png	Frontal	Lateral	Lateral	103.15	129.59	lung_opacity,pneumothorax,pleural_effusion
1437	1437_IM-0281-2001.dcm.png	Lateral	Lateral	Lateral	106.47	103.03	lung_opacity,pneumothorax,pleural_effusion
1577	1577_IM-0375-1001.dcm.png	Frontal	Lateral	Lateral	116.62	108.40	lung_opacity,pleural_effusion
1577	1577_IM-0375-2001.dcm.png	Lateral	Lateral	Lateral	102.77	106.18	lung_opacity,pleural_effusion
1581	1581_IM-0378-1001.dcm.png	Frontal	Lateral	Lateral	95.96	120.98	lung_leSION,consolidation,pneumothorax,pleural_effusion
1581	1581_IM-0378-2001.dcm.png	Lateral	Lateral	Lateral	104.11	102.50	lung_leSION,consolidation,pneumothorax,pleural_effusion
1815	1815_IM-0527-1001.dcm.png	Frontal	Lateral	Lateral	115.88	107.91	pleural_effusion
1815	1815_IM-0527-2001.dcm.png	Lateral	Lateral	Lateral	103.44	123.88	pleural_effusion
1867	1867_IM-0560-4004.dcm.png	Frontal	Lateral	Lateral	97.93	100.44	cardiomegaly,lung_opacity,edema,atelectasis,pleural_effusion,fracture
1867	1867_IM-0560-1001.dcm.png	Lateral	Lateral	Lateral	93.67	95.31	cardiomegaly,lung_opacity,edema,atelectasis,pleural_effusion,fracture
2077	2077_IM-0710-1001.dcm.png	Frontal	Lateral	Lateral	120.19	111.66	consolidation,atelectasis,pneumothorax,pleural_effusion
2077	2077_IM-0710-2001.dcm.png	Lateral	Lateral	Lateral	115.02	94.87	consolidation,atelectasis,pneumothorax,pleural_effusion

Per-image predictions (rows 41-53 of 53)

UID	Image_ID	GT_View	Normal_Pred	CLAHE_Pred	Normal_Inference_Time	CLAHE_Inference_Time	Pathology_Labels_14
2095	2095_IM-0725-4001.dcm.png	Frontal	Lateral	Lateral	96.68	106.21	atelectasis,pneumothorax,pleural_effusion,fracture
2095	2095_IM-0725-2001.dcm.png	Lateral	Lateral	Lateral	107.18	106.51	atelectasis,pneumothorax,pleural_effusion,fracture
2396	2396_IM-0945-1001.dcm.png	Frontal	Lateral	Lateral	95.34	98.94	lung_opacity,consolidation,pneumothorax,pleural_effusion
2396	2396_IM-0945-2001.dcm.png	Lateral	Lateral	Lateral	95.37	97.74	lung_opacity,consolidation,pneumothorax,pleural_effusion
2752	2752_IM-1202-0001-0001.dcm.png	Frontal	Frontal	Frontal	102.05	116.23	cardiomegaly,lung_opacity,edema,atelectasis,pleural_effusion
2752	2752_IM-1202-0001-0002.dcm.png	Lateral	Frontal	Frontal	99.43	88.83	cardiomegaly,lung_opacity,edema,atelectasis,pleural_effusion
2894	2894_IM-1296-4001-0001.dcm.png	Frontal	Lateral	Lateral	104.72	99.06	support_devices
2894	2894_IM-1296-4001-0002.dcm.png	Lateral	Frontal	Lateral	100.10	102.61	support_devices
3074	3074_IM-1435-1001.dcm.png	Frontal	Lateral	Lateral	99.42	104.93	lung_opacity,pneumonia
3074	3074_IM-1435-2001.dcm.png	Lateral	Lateral	Lateral	101.94	101.74	lung_opacity,pneumonia
3323	3323_IM-1589-0001-0003.dcm.png	Lateral	Lateral	Lateral	108.35	103.43	pneumothorax,pleural_effusion,support_devices
3636	3636_IM-1803-1001.dcm.png	Frontal	Frontal	Frontal	95.90	99.71	lung_opacity,pneumothorax,pleural_effusion
3636	3636_IM-1803-2001.dcm.png	Lateral	Lateral	Lateral	106.81	109.51	lung_opacity,pneumothorax,pleural_effusion