### MedMNIST-EdgeAl v2 — Phase-2 OCT2017

2025-10-29 22:00:16

Phase-2 OCT2017 consolidated evidence

Teacher dir: D:\MedMNIST-EdgeAlv2\reports\phase2\_oct2017\teacher\_resnet50

Student dir: D:\MedMNIST-EdgeAlv2\reports\phase2\_oct2017\student\_effb0
Student dir: D:\MedMNIST-EdgeAlv2\reports\phase2\_oct2017\student\_mbv2
Student dir: D:\MedMNIST-EdgeAlv2\reports\phase2\_oct2017\student\_resnet18

**Dir:** D:\MedMNIST-EdgeAlv2\reports\phase2\_oct2017\teacher\_resnet50

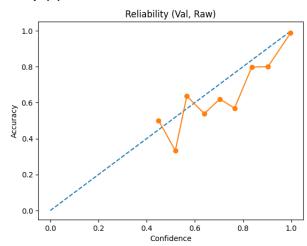
 Val Acc:
 0.9726

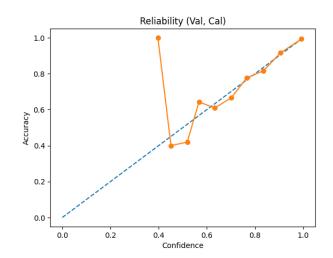
 Val Loss:
 0.0992

 Test Acc:
 0.9969

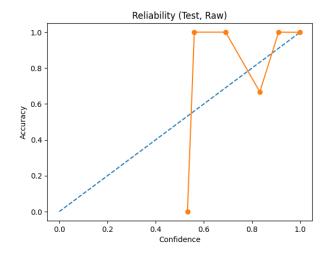
**Vest Liabsi**ty (Raw) 0.0120 Val Reliability (Cal)

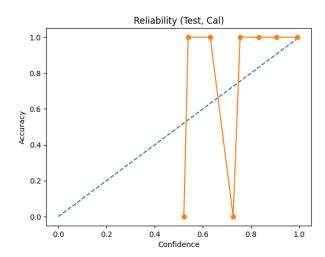
**Temp (T):** 1.4916





Test Reliability (Cal)





corruption	level	acc	nll	ece	brier	n
gauss	0.1000	0.9680	0.0956	0.0121	0.0510	968
gauss	0.2000	0.5207	3.6345	0.3925	0.8268	968
gauss	0.3000	0.2521	14.9194	0.6888	1.4942	968
jpeg	90	0.9959	0.0119	0.0055	0.0058	968
jpeg	70	0.9979	0.0086	0.0045	0.0037	968
jpeg	50	0.9969	0.0134	0.0069	0.0059	968
contrast	0.8000	0.9990	0.0082	0.0059	0.0030	968
contrast	0.6000	0.9959	0.0155	0.0088	0.0064	968

arch	batch	device	lat_ms_p50	lat_ms_p05	lat_ms_p95	peak_cuda_mib
resnet50	1	сри	57.859649881720	<b>84</b> .905950063839	<b>62</b> 5268660112749	7080
resnet50	2	сри	88.471350027248	<b>26</b> .300914979074	<b>95</b> .045860066078	<b>59</b> 90
resnet50	4	сри	147.37834990955	<b>89</b> 3.66858492139	7 <b>23</b> .95496004493	907

arch	batch	device	lat_ms_p50	lat_ms_p05	lat_ms_p95	peak_cuda_mib
resnet50	1	cuda	11.928575992584	<b>725</b> 032449722290	<b>04</b> .351378965377	′ <b>85</b> 0.17431640625
resnet50	2	cuda	11.592495918273	<b>925</b> 944108486175	<b>53</b> .820109033584	<b>595</b> .6806640625
resnet50	4	cuda	11.149824142456	<b>954</b> 546335697174	<b>07</b> .060832262039	<b>185</b> .9931640625
resnet50	8	cuda	16.705024719238	<b>28</b> .425598812103	<b>27</b> .173657512664	<b>799</b> .0556640625

# **Teacher** — Efficiency (Memory)

2025-10-29 22:00:16

arch	param_bytes	param_mib	img_size	batch	peak_cuda_mib
resnet50	94064912	89.70729064941406	224	1	110.39501953125

**Dir:** D:\MedMNIST-EdgeAlv2\reports\phase2\_oct2017\student\_effb0

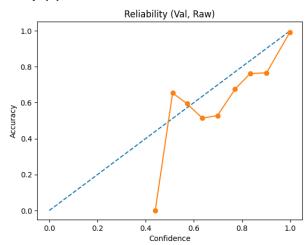
 Val Acc:
 0.9760

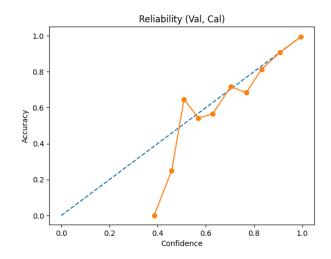
 Val Loss:
 0.0846

 Test Acc:
 0.9990

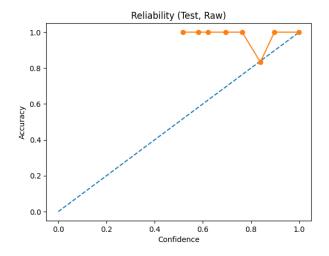
**Veist Liasis**ty (Raw) 0.0082 Val Reliability (Cal)

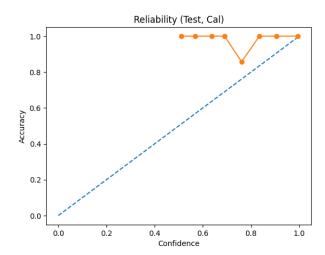
**Temp (T):** 1.4478





Test Reliability (Cal)





corruption	level	acc	nll	ece	brier	n
gauss	0.1000	0.2521	2.5059	0.5183	1.1556	968
gauss	0.2000	0.2428	12.5500	0.7094	1.4546	968
gauss	0.3000	0.2500	19.3147	0.0723	1.4999	968
jpeg	90	0.9979	0.0087	0.0053	0.0038	968
jpeg	70	1	0.0078	0.0068	0.0030	968
jpeg	50	0.9979	0.0098	0.0054	0.0045	968
contrast	0.8000	0.9969	0.0087	0.0073	0.0037	968
contrast	0.6000	0.9959	0.0133	0.0066	0.0063	968

## Student — student\_effb0 — Efficiency (CPU latency)2025-10-29 22:00:16

arch	batch	device	lat_ms_p50	lat_ms_p05	lat_ms_p95	peak_cuda_mib
efficientnet_b0	1	сри	31.402099994011	<b>22</b> 3406890075188	<b>33</b> .373429849278	8080
efficientnet_b0	2	сри	51.300300052389	<b>8</b> 4.274355215020	<b>68</b> .819410119205	7010
efficientnet_b0	4	cpu	67.286549950949	<b>85</b> .850185011513	<b>83</b> .681784837041	<b>0</b> 50

## Student — student\_effb0 — Efficiency (GPU latency)2025-10-29 22:00:16

arch	batch	device	lat_ms_p50	lat_ms_p05	lat_ms_p95	peak_cuda_mib
efficientnet_b0	1	cuda	17.362976074218	3 <b>75</b> .352355098724	<b>39</b> 5394314956665	<b>33</b> .09814453125
efficientnet_b0	2	cuda	17.319503784179	9 <b>68</b> 8790484905242	. <b>92</b> .788818264007	<b>'56</b> 7779296875
efficientnet_b0	4	cuda	17.45958423614	<b>0⊉</b> .190643310546	8 <b>7957</b> 96236801147	<b>46</b> .880859375
efficientnet_b0	8	cuda	17.027423858642	2 <b>57</b> 8165402984619	<b>20</b> .253011035919	<b>69</b> .951171875

## Student — student\_effb0 — Efficiency (Memory) 2025-10-29 22:00:16

arch	param_bytes	param_mib	img_size	batch	peak_cuda_mib
efficientnet_b0	16050688	15.30712890625	224	1	35.1962890625

**Dir:** D:\MedMNIST-EdgeAlv2\reports\phase2\_oct2017\student\_mbv2

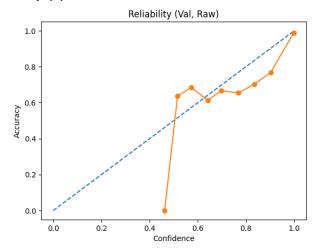
 Val Acc:
 0.9747

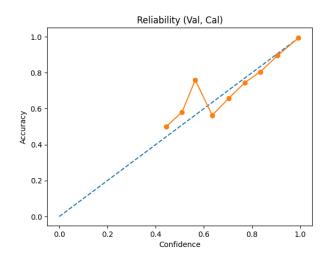
 Val Loss:
 0.0964

 Test Acc:
 0.9979

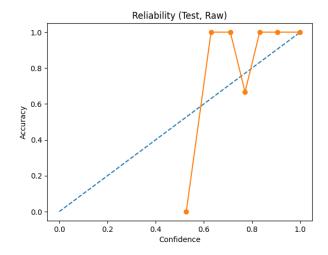
**Vest Liasis**ty (Raw) 0.0072 Val Reliability (Cal)

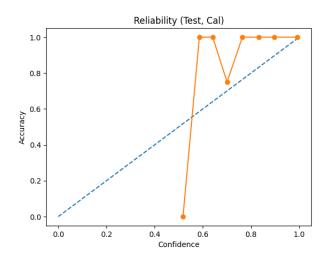
**Temp (T):** 1.5151





Test Reliability (Cal)





corruption	level	acc	nll	ece	brier	n
gauss	0.1000	0.9876	0.0548	0.0070	0.0240	968
gauss	0.2000	0.8409	0.6615	0.1064	0.2693	968
gauss	0.3000	0.3079	5.7678	0.6704	1.3466	968
jpeg	90	0.9990	0.0069	0.0041	0.0028	968
jpeg	70	0.9979	0.0077	0.0054	0.0033	968
jpeg	50	0.9979	0.0089	0.0040	0.0039	968
contrast	0.8000	0.9969	0.0091	0.0059	0.0040	968
contrast	0.6000	0.9928	0.0198	0.0104	0.0108	968

## Student — student\_mbv2 — Efficiency (CPU latency)2025-10-29 22:00:16

arch	batch	device	lat_ms_p50	lat_ms_p05	lat_ms_p95	peak_cuda_mib
mobilenet_v2	1	cpu	20.246550091542	2 <b>38</b> 4176639988087	<b>308</b> 213744915090	<b>6</b> .0
mobilenet_v2	2	cpu	38.826899835839	<b>87</b> .357779836747	<b>749</b> 5354105131700	6335
mobilenet_v2	4	cpu	52.454550052061	<b>168</b> .712014897726	<b>547</b> 6485954937990	07535

## Student — student\_mbv2 — Efficiency (GPU latency) 025-10-29 22:00:16

arch	batch	device	lat_ms_p50	lat_ms_p05	lat_ms_p95	peak_cuda_mib
mobilenet_v2	1	cuda	11.103728294372	2 <b>659</b> 213823795318	6 <b>4</b> .129328298568	<b>22</b> 53935546875
mobilenet_v2	2	cuda	11.284607887268	<b>766</b> 615760087966	<b>92</b> .904214286804	<b>2</b> 8.9443359375
mobilenet_v2	4	cuda	11.481535911560	<b>659</b> 680512189865	<b>16</b> .233777618408	3 <b>20</b> 50458984375
mobilenet_v2	8	cuda	10.809296131134	<b>735</b> 237696886062	<b>62</b> .051481676101	<b>62</b> 22490234375

## Student — student\_mbv2 — Efficiency (Memory) 2025-10-29 22:00:16

arch	param_bytes	param_mib	img_size	batch	peak_cuda_mib
mobilenet_v2	8915984	8.502944946289062	224	1	28.36328125

**Dir:** D:\MedMNIST-EdgeAlv2\reports\phase2\_oct2017\student\_resnet18

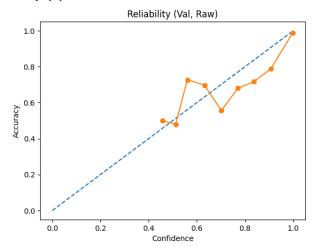
 Val Acc:
 0.9741

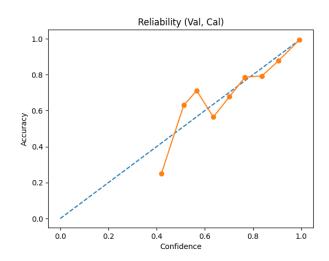
 Val Loss:
 0.0969

 Test Acc:
 0.9969

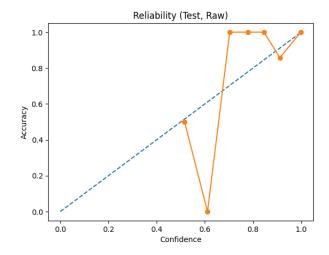
**Vest Liasis**ty (Raw) 0.0085 Val Reliability (Cal)

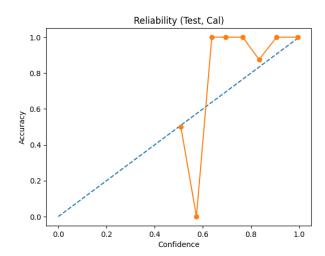
**Temp (T):** 1.5097





Test Reliability (Cal)





corruption	level	acc	nll	ece	brier	n
gauss	0.1000	0.9886	0.0205	0.0092	0.0124	968
gauss	0.2000	0.8554	0.5630	0.0955	0.2365	968
gauss	0.3000	0.3874	3.4996	0.5384	1.1122	968
jpeg	90	0.9959	0.0085	0.0048	0.0045	968
jpeg	70	0.9990	0.0073	0.0051	0.0032	968
jpeg	50	0.9979	0.0086	0.0042	0.0040	968
contrast	0.8000	0.9990	0.0094	0.0049	0.0040	968
contrast	0.6000	0.9917	0.0220	0.0026	0.0124	968

## Student — student\_resnet18 — Efficiency (CPU latency)0-29 22:00:16

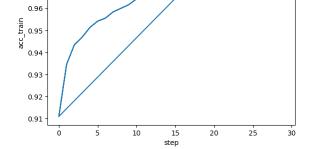
arch	batch	device	lat_ms_p50	lat_ms_p05	lat_ms_p95	peak_cuda_mib
resnet18	1	сри	25.122649967670	<b>24</b> .175394815392	2 <b>26</b> 2204014988616	010
resnet18	2	сри	37.292200024239	<b>38</b> .047599976882	2 <b>38</b> .879169838037	1835
resnet18	4	сри	60.204349923878	<b>98</b> .626494964119	<b>62</b> .959384988062	<b>0</b> 834

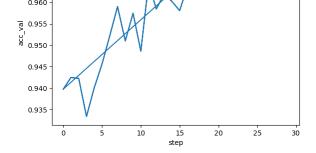
## Student — student\_resnet18 — Efficiency (GPU laten@y)0-29 22:00:16

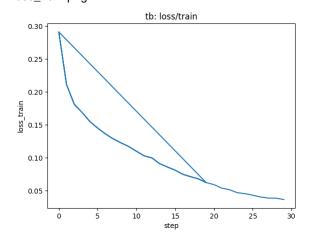
arch	batch	device	lat_ms_p50	lat_ms_p05	lat_ms_p95	peak_cuda_mib
resnet18	1	cuda	5.3130238056182	<b>26</b> 6698320508003	<b>23</b> 590382099151	<b>60</b> .15380859375
resnet18	2	cuda	5.2157440185546	<b>275</b> 382736206054	<b>688</b> 830959796905	<b>8</b> 1.16455078125
resnet18	4	cuda	5.0805120468139	<b>6</b> 56544641137123	7026181950569152	2 <b>82</b> .25634765625
resnet18	8	cuda	6.5213439464569	<b>6</b> 95854590654373	<b>7</b> 77834014177322	2 <b>89</b> .26806640625

## Student — student\_resnet18 — Efficiency (Memory) 2025-10-29 22:00:16

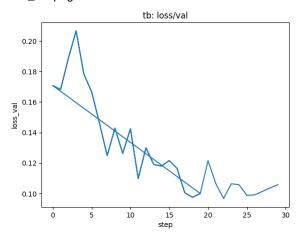
arch	param_bytes	param_mib	img_size	batch	peak_cuda_mib
resnet18	44714256	42.64283752441406	224	1	62.09375

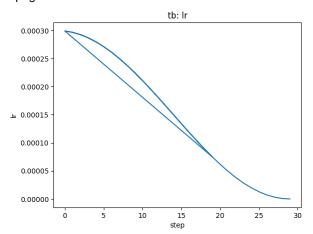


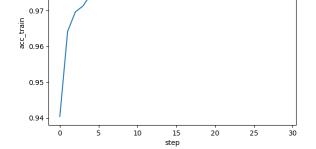


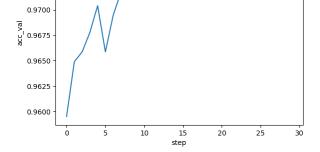


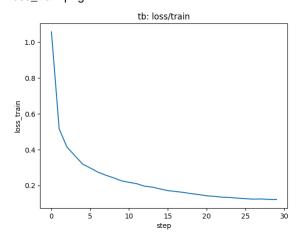
#### loss\_val.png



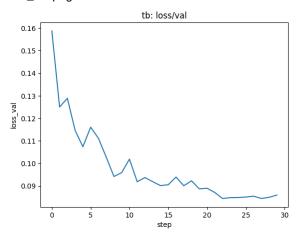


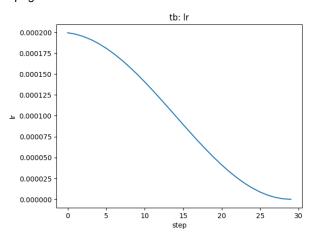


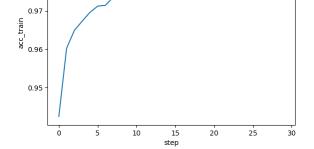


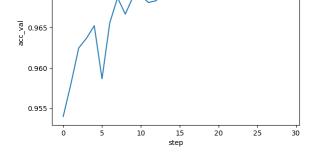


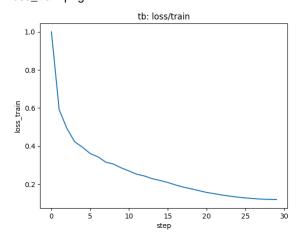
#### loss\_val.png



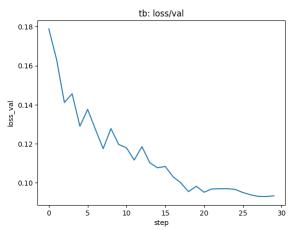


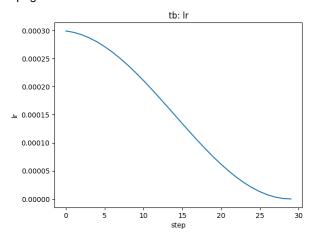


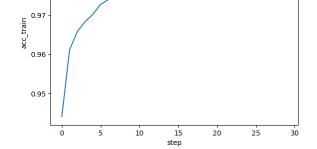


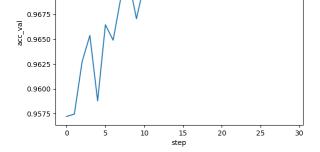


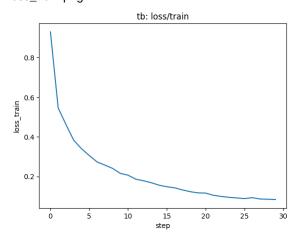
#### loss\_val.png



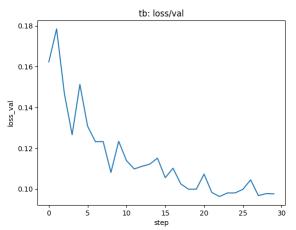


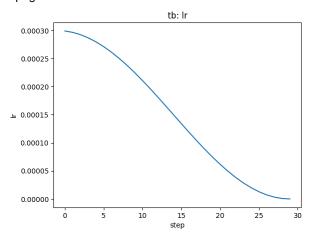


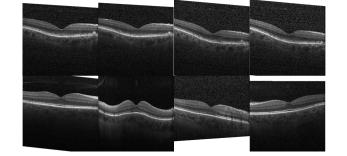




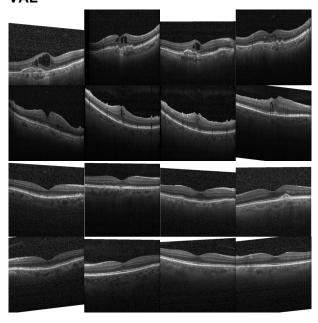
#### loss\_val.png







### VAL



### **TEST**

