## This checklist must be submitted as a PDF as part of your submission.

	of Certifying Engineer(s): n Tran, Videet Parekh, Abelardo Lopez-Lagunas, Sek Chai
Email o	of Certifying Engineer(s):
<u>honsor</u>	n@latentai.com, videet@latentai.com, abelardo@latentai.com, sek@latentai.com
Name(	s) of System Under Test: Raspberry Pi 4B (4GB RAM)
Divisio	n (check one):
	Open
☑	Closed
Catego	pry (check one):
$\square$	Available
	Preview
	Research, Development, and Internal (RDI)
Benchi	mark(s) (check all that apply):
$\square$	Visual Wake Words
	Keyword Spotting
	Anomaly Detection
$\square$	Image Classification

Please fill in the following table adding lines as necessary:

System Under Test Name	Benchmark	Accuracy/AUC
Raspberry Pi 4	ic_fp32	85.5% / 0.99
Raspberry Pi 4	ic_int8	78.5% / 0.95
Raspberry Pi 4	vww_fp32	85.3% / 0.94
Raspberry Pi 4	vww_int8	85.4% / 0.94

For each SUT, is the benchmark Accuracy/AUC target met? (Not a requirement for the Open division) (check all that apply):

☑	Yes (Visual Wake Words 80% Accuracy)
	Yes (Keyword Spotting 90% Accuracy)
	Yes (Anomaly Detection 0.85 AUC)
Ø	Yes (Image Classification 85% Accuracy)
	No for some combination of boundaries

☑ No, for some combination of benchmark, scenario and SUT

	ch SUT and benchmark, did the submission run on the whole validation set in accuracy (check one):
$\square$	Yes
	No
For ea	ch SUT and benchmark, does the submission use the EEMBC Runner? (check one)
$\square$	Yes
	No
For ead	ch SUT and benchmark, is the same code run in accuracy and performance modes? one)
$\square$	Yes
	No
	e weights calibrated using data outside of the official calibration set? (check one)
	Yes
$\square$	No
What n	numerics does the submission use? (check all that apply)
	INT4
$\square$	INT8
	INT16
	UINT8
	UINT16
	FP11
	FP16
	BF16
$\square$	FP32
	Other, please specify:
What b	packend does the submission use? (check all that apply)
	Vendor backend, please name:
	TF-Lite Micro
	Micro TVM
☑	Other, please specify: LEIP Framework
Which	of the following caching techniques does the submission use? (check all that apply,
ideally	none):
	Caching Inputs between iterations
	Caching responses between iterations
	Caching intermediate computations between iterations

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	of the following techniques does the submission use? (check all that apply, ideally hone i tting to the closed division.)
	Quantization aware training
	Wholesale weight replacement
	Weight supplements
	Discarding non-zero weight elements
	Pruning
	Modifying weights during the timed portion of an inference run
_	
	None of the above
ls the	submission congruent with all relevant MLPerf rules?
$\Box$	Yes
	No
If the	
	answer to the above question is no, please explain:
For ea	ch SUT, have you filled out the JSON system description file?
For ea ☑	
For ea ☑ □	ich SUT, have you filled out the JSON system description file? Yes No
For ea	ich SUT, have you filled out the JSON system description file? Yes
For ea ☑ □ For ea	ch SUT, have you filled out the JSON system description file? Yes No ch SUT, does the submission accurately reflect the real-world performance of the SUT?
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For ea	ich SUT, have you filled out the JSON system description file? Yes No ch SUT, does the submission accurately reflect the real-world performance of the SUT? Yes No
For ea	Ich SUT, have you filled out the JSON system description file? Yes No Ich SUT, does the submission accurately reflect the real-world performance of the SUT? Yes No Your submission include the following: (check all that apply)
For ea	ch SUT, have you filled out the JSON system description file? Yes No ch SUT, does the submission accurately reflect the real-world performance of the SUT? Yes No your submission include the following: (check all that apply) System description file
For ea	ch SUT, have you filled out the JSON system description file? Yes No ch SUT, does the submission accurately reflect the real-world performance of the SUT? Yes No your submission include the following: (check all that apply) System description file Code that implements the benchmarks
For ea	ch SUT, have you filled out the JSON system description file? Yes No ch SUT, does the submission accurately reflect the real-world performance of the SUT? Yes No your submission include the following: (check all that apply) System description file Code that implements the benchmarks Code/scripts that train the model(s) (Open Division)
For ead	ch SUT, have you filled out the JSON system description file? Yes No ch SUT, does the submission accurately reflect the real-world performance of the SUT? Yes No your submission include the following: (check all that apply) System description file Code that implements the benchmarks Code/scripts that train the model(s) (Open Division) Metadata that describes each system-implementation combination tested