	of Certifying Engineer(s): Saheli Bhattacharjee
Email o	of Certifying Engineer(s): saheli@krai.ai
Name(s) of System Under Test: NUCLEO-L4R5ZI, NUCLEO-H7A3ZI-Q, NRF5340-DK
Divisio	n (check one):
	Open
	Closed
_	0.0000
Catego	ory (check one):
$ \sqrt{} $	Available
	Preview
	Research, Development, and Internal (RDI)
,	mark(s) (check all that apply):
₹	Visual Wake Words
$ \mathbf{Z}$	Keyword Spotting
$ \sqrt{} $	Anomaly Detection
$ \sqrt{} $	Image Classification

Please fill in the following table adding lines as necessary:

System Under Test Name	Benchmark	Accuracy/AUC
NUCLEO-L4R5ZI (X-CUBE-AI-7.3.0)	AD	AUC: 0.86
NUCLEO-L4R5ZI (X-CUBE-AI-7.3.0)	IC	Top-1: 85.0%
NUCLEO-L4R5ZI (X-CUBE-AI-7.3.0)	KWS	Top-1: 90.2%
NUCLEO-L4R5ZI (X-CUBE-AI-7.3.0)	VWW	Top-1: 85.2%
NUCLEO-L4R5ZI (X-CUBE-AI-8.0.0)	AD	AUC: 0.86
NUCLEO-L4R5ZI (X-CUBE-AI-8.0.0)	IC	Top-1: 85.0%
NUCLEO-L4R5ZI (X-CUBE-AI-8.0.0)	KWS	Top-1: 90.2%

NUCLEO-L4R5ZI (X-CUBE-AI-8.0.0)	VWW	Top-1: 85.2%
NUCLEO L4R5ZI (microtvm_cmsis_nn)	AD	AUC: 0.86
NUCLEO_L4R5ZI (microtvm_cmsis_nn)	IC	Тор-1: 86.5
NUCLEO_L4R5ZI (microtvm_cmsis_nn)	KWS	Top-1: 90.1%
NUCLEO_L4R5ZI (microtvm_cmsis_nn)	VWW	Top-1: 85.4%
NUCLEO_L4R5ZI (microtvm_native)	AD	AUC: 0.86
NUCLEO_L4R5ZI (microtvm_native)	IC	Top-1: 87.0%
NUCLEO_L4R5ZI (microtvm_native)	KWS	Top-1: 90.2%
NUCLEO_L4R5ZI (microtvm_native)	VWW	Top-1: 81.4%
NUCLEO_H7A3ZI-Q (X-CUBE-AI-7.3.0)	AD	AUC: 0.86
NUCLEO_H7A3ZI-Q (X-CUBE-AI-7.3.0)	IC	Top-1: 85.0%
NUCLEO_H7A3ZI-Q (X-CUBE-AI-7.3.0)	KWS	Top-1: 90.2%
NUCLEO_H7A3ZI-Q (X-CUBE-AI-7.3.0)	VWW	Top-1: 85.2%
NUCLEO_H7A3ZI-Q (X-CUBE-AI-8.0.0)	AD	AUC: 0.86

NUCLEO_H7A3ZI-Q (X-CUBE-AI-8.0.0)	IC	Top-1: 85.0%
NUCLEO_H7A3ZI-Q (X-CUBE-AI-8.0.0)	KWS	Top-1: 90.2%
NUCLEO_H7A3ZI-Q (X-CUBE-AI-8.0.0)	VWW	Top-1: 85.2%
NRF5340-DK (microtvm_cmsis_nn)	AD	AUC: 0.86
NRF5340-DK (microtvm_cmsis_nn)	IC	Top-1: 86.5%
NRF5340-DK (microtvm_cmsis_nn)	KWS	Top-1: 90.1%
NRF5340-DK (microtvm_cmsis_nn)	VWW	Top-1: 85.4%

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

isio)	n) (check all that apply):
\square	Yes (Visual Wake Words 80% Accuracy)
$ \sqrt{} $	Yes (Keyword Spotting 90% Accuracy)

Yes (Anomaly Detection ... 0.85 AUC)

✓ Yes (Image Classification ... 85% Accuracy)

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

For each SUT and benchmark, did the submission run on the whole validation set in accuracy mode? (check one):

Yes No
 nch SUT and benchmark, does the submission use the EEMBC Runner? (check one) Yes No

For each SUT and benchmark, is the same code run in accuracy and performance modes? (check one)

✓ Yes

☐ No

	ghts calibrated using data outside of the official calibration set? (check one)
☐ Yes	
∡ No	
□ INTA □ INTA □ UIN □ UIN □ FP1 □ FP1 □ FP3	8 16 T8 T16 1 6 6
□ Ven □ TF-l ☑ Micr	end does the submission use? (check all that apply) dor backend, please name: Lite Micro TO TVM er, please specify: We have used microTVM native and CMSIS_NN package, X-CUBE-AI-7.3.0, and X-CUBE-AI-8.0.0.
Which of th	e following caching techniques does the submission use? (check all that apply,
ideally none	e):
	hing Inputs between iterations
	hing responses between iterations
☐ Cac	hing intermediate computations between iterations
submitting to Qual Qual Who Wei Disco	e following techniques does the submission use? (check all that apply, ideally none if to the closed division.) Intization aware training Desale weight replacement ght supplements Carding non-zero weight elements Ining Diffying weights during the timed portion of an inference run d coding the total number of queries Lie of the above
	nission congruent with all relevant MLPerf rules?
✓ Yes	
☐ No	

If the answer to the above question is no, please explain:

	√	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
Doe	es y	our submission include the following: (check all that apply)
	V	System description file
,	V	Code that implements the benchmarks
		Code/scripts that train the model(s) (Open Division)
	$ \sqrt{} $	Metadata that describes each system-implementation combination tested
	V	Scripts that set up and execute each system implementation tested
	V	Result logs for each system implementation tested
	abla	This Checklist