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

Name of Certifying Engineer(s): Farah Baghdadi Email of Certifying Engineer(s): farah.baghdadi@st.com Name(s) of System Under Test: NUCLEO_L4R5ZI				
Divisio	n (check one):			
	Open			
$ \mathbf{\Lambda} $	Closed			
Category (check one):				
$ \mathbf{V}$	Available			
	Preview			
	Research, Development, and Internal (RDI)			
Benchmark(s) (check all that apply):				
\checkmark	Visual Wake Words			
$\mathbf{\Delta}$	Keyword Spotting			
\checkmark	Anomaly Detection			
$\mathbf{\Lambda}$	Image Classification			

Please fill in the following table adding lines as necessary:

System Under Test Name	Benchmark	Accuracy/AUC
NUCLEO_L4R5ZI	Anomaly Detection	0.86
NUCLEO_L4R5ZI	Image classification	85.0%
NUCLEO_L4R5ZI	Keyword Spotting	90.2%
NUCLEO_L4R5ZI	Visual Wake Words	85.2%

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)
- ✓ 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):

⊻í Yes

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	No
$ \underline{\mathbf{A}} $	ch SUT and benchmark, does the submission use the EEMBC Runner? (check one) Yes No
(check	ch SUT and benchmark, is the same code run in accuracy and performance modes? one) Yes No
	e weights calibrated using data outside of the official calibration set? (check one) Yes No
	numerics does the submission use? (check all that apply) INT4 INT8 INT16 UINT8 UINT16 FP11 FP16 BF16 FP32 Other, please specify:
<u> </u>	Dackend does the submission use? (check all that apply) Vendor backend, please name: TF-Lite Micro Micro TVM Other, please specify: X-CUBE-Al v7.3.0
ideally	of the following caching techniques does the submission use? (check all that apply, none): Caching Inputs between iterations Caching responses between iterations Caching intermediate computations between iterations

Which of the following techniques does the submission use? (check all that apply, ideally none if submitting to the closed division.)

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		Quantization aware training Wholesale weight replacement Weight supplements Discarding non-zero weight elements Pruning Modifying weights during the timed portion of an inference run Hard coding the total number of queries None of the above
	y	submission congruent with all relevant MLPerf rules? Yes No
lf th	e a	nswer to the above question is no, please explain:
	√	ch SUT, have you filled out the JSON system description file? Yes No
	1	ch SUT, does the submission accurately reflect the real-world performance of the SUT? Yes No
	\(\frac{1}{2} \)	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 Scripts that set up and execute each system implementation tested Result logs for each system implementation tested This Checklist