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

Name of Certifying Engineer(s) Email of Certifying Engineer(s) Name(s) of System Under Test	: mahdi.chtourou@st.com		
Division (check one): ☐ Open			
□ Closed √			
Category (check one):			
□ Available √			
□ Preview	☐ Preview		
Research, Developmen	t, and Internal (RDI)		
Benchmark(s) (check all that a ☐ Visual Wake Words √ ☐ Keyword Spotting √ ☐ Anomaly Detection √ ☐ Image Classification√	oply):		
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%	
division) (check all that apply): Yes (Visual Wake Word Yes (Keyword Spotting Yes (Anomaly Detection Yes (Image Classification	90% Accuracy) √ n 0.85 AUC) √		
For each SUT and benchmark, mode? (check one): ☐ Yes √	did the submission run on the w	nole validation set in accuracy	

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	No
	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
	weights calibrated using data outside of the official calibration set? (check one) Yes No $\sqrt{}$
	umerics does the submission use? (check all that apply) INT4 INT8 √ INT16 UINT8 UINT16 FP11 FP16 BF16 FP32
What b	Other, please specify: ackend does the submission use? (check all that apply) Vendor backend, please name: TF-Lite Micro Micro TVM Other, please specify: √ □ X-CUBE-Al v7.1.0
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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Is the submission congruent with all relevant MLPerf rules? ☐ Yes √ ☐ No If the answer to the above question is no, please explain: For each SUT, have you filled out the JSON system description file? ☐ Yes √ ☐ No For each SUT, does the submission accurately reflect the real-world performance of the S ☐ Yes √ ☐ No Does 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 √ ☐ Scripts that set up and execute each system implementation tested √		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
For each SUT, have you filled out the JSON system description file? ☐ Yes √ ☐ No For each SUT, does the submission accurately reflect the real-world performance of the S ☐ Yes √ ☐ No Does 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 √ ☐ Scripts that set up and execute each system implementation tested √		Yes √
 Yes √ No For each SUT, does the submission accurately reflect the real-world performance of the S Yes √ No Does 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 √ Scripts that set up and execute each system implementation tested √ 	If the a	answer to the above question is no, please explain:
 Yes √ No Does 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 √ Scripts that set up and execute each system implementation tested √ 		Yes √
 □ 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 √ 		Yes √
 □ Result logs for each system implementation tested √ □ This Checklist √ 		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 $$