ML Commons

MLCommons + Proposed Mobile App Modifications for GSMA

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GSMA Requirements Easily Covered by MLC

Software Requirements	
TS47_.2_REQ_001	An AI Mobile Device SHALL support on-device model updates of an existing deep learning network.
TS47_.2_REQ_002	An AI Mobile Device SHALL support native APIs to expose the AI hardware functions.
TS47_.2_REQ_003	An AI Mobile Device SHALL support application APIs (See Appendix A) for native and third-party applications to access Computer Vision (CV), Automatic Speech Recognition (ASR), Natural Language Understanding (NLU) models.
TS47_.2_REQ_004	An AI Mobile Device SHOULD provide an SDK to convert DNN models from an existing format to the native format of the AI mobile device. Non exhaustive examples of DNN model file format are: *.ckpt or *.pb, *.tflite, *.prototxt, *.pb or *.pth or *.pt, *.json and *.onnx.
TS47_.2_REQ_005	An AI Mobile Device SHOULD provide an SDK to support definition of new customized Deep Learning operators.

1. **Performance Requirement**

- The device SHALL use a benchmark system (e.g. MLPERF.org, AI-benchmark.com, AIT China Telecom etc.) to generate an inferencing performance report.

Proposed MLC Mobile Changes

- Modify reporting output screen to cover these GSMA Requirements
- Add GSMA Logo to mobile benchmark splash screen
- Report inferencing performance

MLPerf Mobile - Already in use