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# L03 Deploying a Simple AI Model on a Simulated Edge Device using Visual Studio Code

## Reflective Journal

This project was interesting; the provided code worked well except for a few sections in step 4. In step 4.1, the provided conversion code needed to be changed. As noted in the JupyterNotebook PDF export notes, the model needed to be saved before conversion, using the provided conversion code caused the python kernel to crash. Saving the code in a non-compressed format was required by TFLite, and the conversion code needed to be updated to use the **from\_saved\_model** function. After these changes, the tflite file was able to be created. Step 4.2 the code to use the edge impulse uploader, does not support uploading the tflite model, it only allows for uploading data. To upload the tflite model to Edge Impulse, that must be accomplished through the web gui. After uploading the model to the web, we can begin profiling and testing it. I was able to connect with my phone to the model and submit handwritten numbers for classification as seen in the submitted screenshot (Word would not allow inserting it). The performance was impressive, taking approximately 1ms per inference. I am attaching a zip file with all the relevant logs for review.

Attached files

**Module03.pdf** - This is a PDF export of the Jupyter Notebook used

**Screenshot\_20240618\_190620\_Chrome.jpg** - Screenshot of Edge Impulse Remote API running on my phone

**W214016890-project-1 - Dashboard - Edge Impulse.pdf -** Edge Impulse Project Dashboard

### Edge Impulse Deployment Logs

Scheduling job in cluster...

Container image pulled!

Job started

Initializing job pod...

Initializing job pod OK (in 455ms.)

Writing templates...

Scheduling job in cluster...

Container image pulled!

Job started

Exporting TensorFlow Lite model...

Exporting TensorFlow Lite model OK

Removing clutter...

Removing clutter OK

Copying output...

Copying output OK

Scheduling job in cluster...

Container image pulled!

Job started

Compiling WASM library (SIMD)...

em++ -Wall -Wall -g -Wno-strict-aliasing -I. -Isource -Imodel-parameters -Itflite-model -Ithird\_party/ -Os -DNDEBUG -DEI\_CLASSIFIER\_ENABLE\_DETECTION\_POSTPROCESS\_OP -g -DEI\_CLASSIFIER\_USE\_FULL\_TFLITE=1 -std=c++14 -c tflite-model/tflite\_learn\_3.cpp -o tflite-model/tflite\_learn\_3.o

mkdir -p build

em++ edge-impulse-sdk/CMSIS/DSP/Source/TransformFunctions/arm\_cfft\_radix2\_q15.o edge-impulse-sdk/CMSIS/DSP/Source/TransformFunctions/arm\_bitreversal.o edge-impulse-sdk/CMSIS/DSP/Source/TransformFunctions/arm\_cfft\_radix2\_f32.o edge-impulse-sdk/CMSIS/DSP/Source/TransformFunctions/arm\_mfcc\_f16.o edge-impulse-sdk/CMSIS/DSP/Source/TransformFunctions/arm\_rfft\_q15.o edge-impulse-sdk/CMSIS/DSP/Source/TransformFunctions/arm\_cfft\_radix4\_q15.o edge-impulse-sdk/CMSIS/DSP/Source/TransformFunctions/arm\_rfft\_f32.o edge-impulse-sdk/CMSIS/DSP/Source/TransformFunctions/arm\_rfft\_fast\_f64.o edge-impulse-sdk/CMSIS/DSP/Source/TransformFunctions/arm\_cfft\_radix2\_q31.o edge-impulse-sdk/CMSIS/DSP/Source/TransformFunctions/arm\_cfft\_radix4\_init\_q15.o edge-impulse-sdk/CMSIS/DSP/Source/TransformFunctions/arm\_cfft\_radix4\_init\_q31.o edge-impulse-sdk/CMSIS/DSP/Source/TransformFunctions/arm\_rfft\_fast\_init\_f64.o 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2024-06-18T23:39:16.243695528Z 2024-06-18T23:39:10.828320007Z em++: warning: linking a library with `-shared` will emit a static object file. This is a form of emulation to support existing build systems. If you want to build a runtime shared library use the SIDE\_MODULE setting. [-Wemcc]

2024-06-18T23:39:16.243698648Z 2024-06-18T23:39:10.855638325Z mkdir -p build

2024-06-18T23:39:16.243709368Z 2024-06-18T23:39:10.856499492Z em++ -Wall -Wall -g -Wno-strict-aliasing -I. -Isource -Imodel-parameters -Itflite-model -Ithird\_party/ -Os -DNDEBUG -DEI\_CLASSIFIER\_ENABLE\_DETECTION\_POSTPROCESS\_OP -g -DEI\_CLASSIFIER\_USE\_FULL\_TFLITE=1 -std=c++14 -L./build build/libsdk.so emcc\_binding.cpp -o build/edge-impulse-standalone.js -s WASM=1 -lm -lstdc++ -L./tflite/wasm-simd -ltensorflow-lite -lcpuinfo -lfarmhash -lfft2d\_fftsg -lfft2d\_fftsg2d -lruy -lXNNPACK -lpthreadpool -lclog --bind -s ASSERTIONS=1 -s TOTAL\_MEMORY=134217728 -s ERROR\_ON\_UNDEFINED\_SYMBOLS=0 -s ALLOW\_MEMORY\_GROWTH=1

em++: warning: running limited binaryen optimizations because DWARF info requested (or indirectly required) [-Wlimited-postlink-optimizations]

Compiling WASM library (SIMD) OK

Model Upload Log  
Scheduling job in cluster...

Container image pulled!

Job started

Initializing job pod...

Initializing job pod OK (in 464ms.)

Reading model info...

Reading model info OK

### General Log

Scheduling job in cluster...

Container image pulled!

Job started

Initializing job pod...

Initializing job pod OK (in 386ms.)

Scheduling job in cluster...

Container image pulled!

Job started

Profiling model.tflite...

Calculating performance metrics...

Calculating inferencing time...

INFO: Created TensorFlow Lite XNNPACK delegate for CPU.

Calculating inferencing time OK

Determining whether this model runs on MCU...

Determining whether this model runs on MCU OK

Profiling float32 model (TensorFlow Lite Micro)...

Profiling float32 model (TensorFlow Lite Micro, HW optimizations disabled)...

Profiling float32 model (EON)...

Profiling float32 model (EON, HW optimizations disabled)...

Profiling float32 model (EON, HW optimizations disabled)...

Profiling float32 model (EON, RAM optimized)...

Profiling float32 model (EON, RAM optimized)...

Profiling model.tflite OK

Profiling model.tflite OK