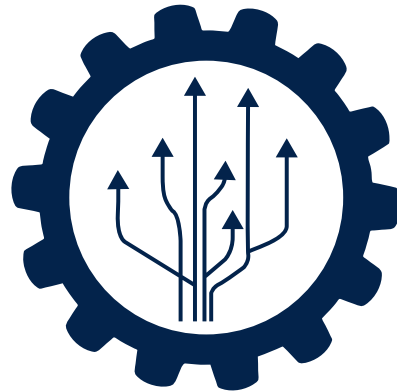


Level 1 – Get inspired and Try



Get inspired

MLC examples are available online at the dedicated **GitHub project for Machine Learning Core**



- Consumer
 - 6D position recognition, Activity recognition, Gym activity recognition, Head gestures
- Industrial
 - 6D position recognition, Motion intensity, Vibration monitoring
- Automotive
 - Vehicle stationary detection

... and more to come!

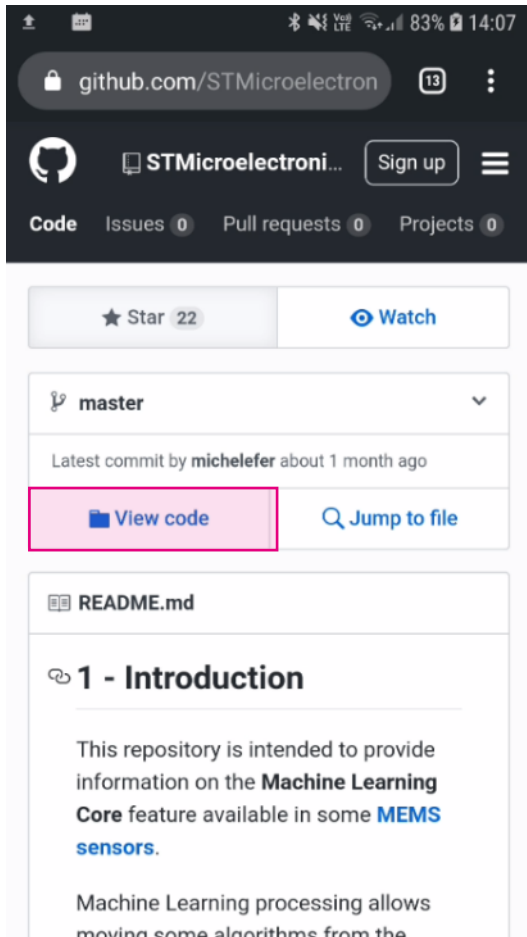
github.com/STMicroelectronics/STMems_Machine_Learning_Core



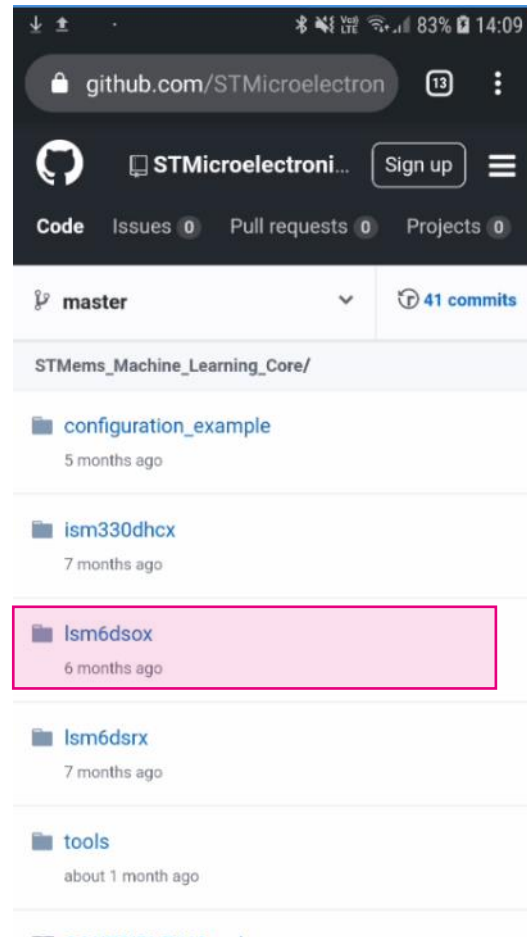


Choose your MLC demo from GitHub

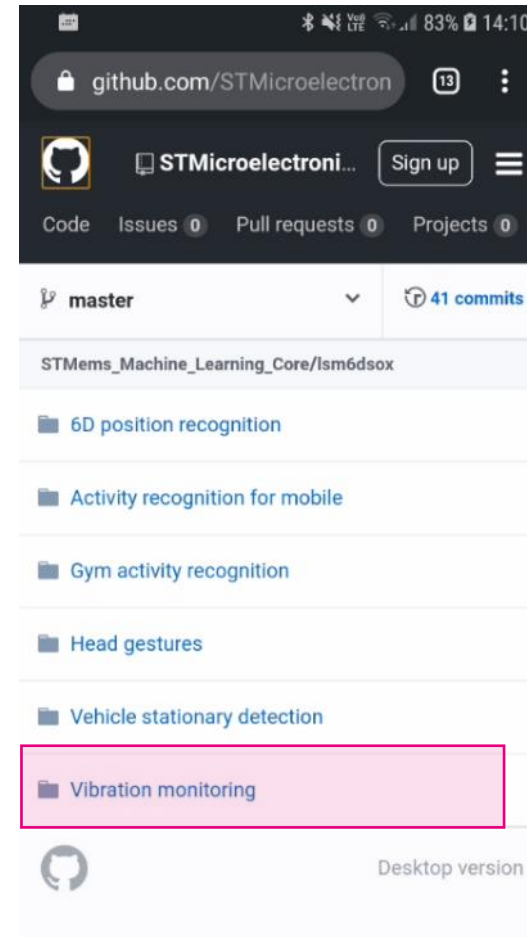
Open [GitHub MLC page](#) in your mobile device



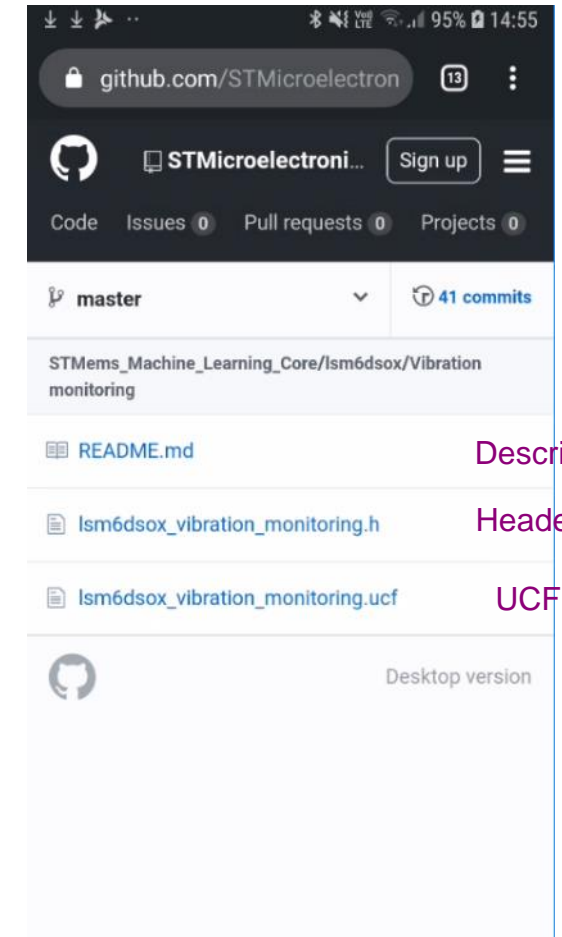
Select sensor



Choose MLC algorithm



Explore the folder



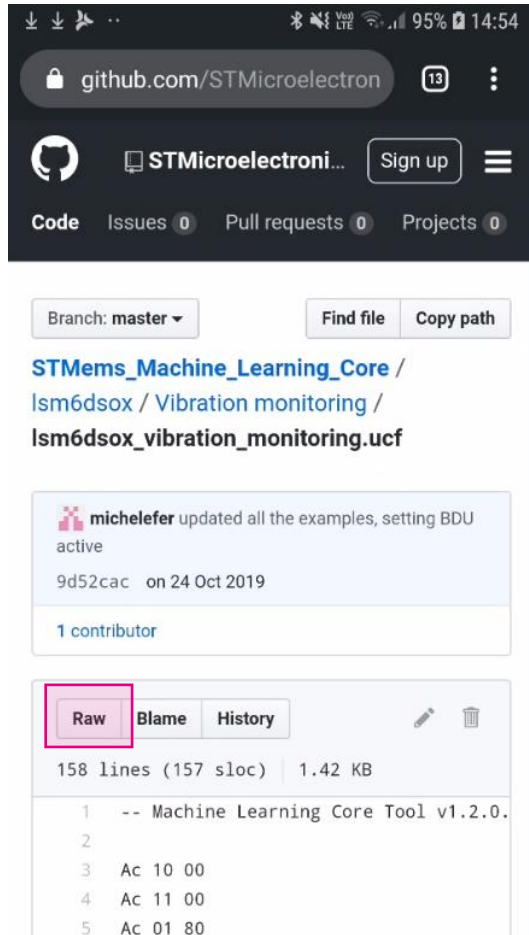
[Watch a video](#) showing this demo on [Microsoft Stream](#).

Header file – standard header file to be included in C project
UCF – configuration file for ST tools (ST BLE app, Unico)

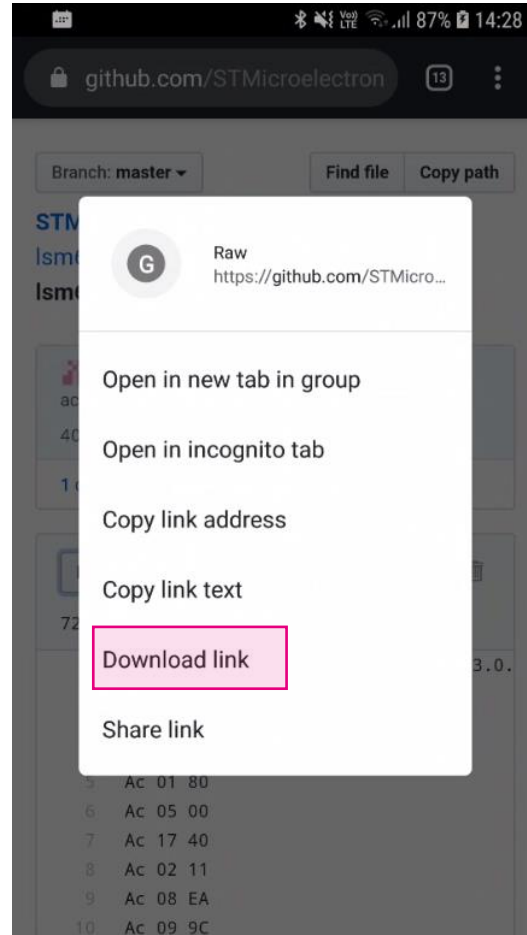


Download MLC configuration

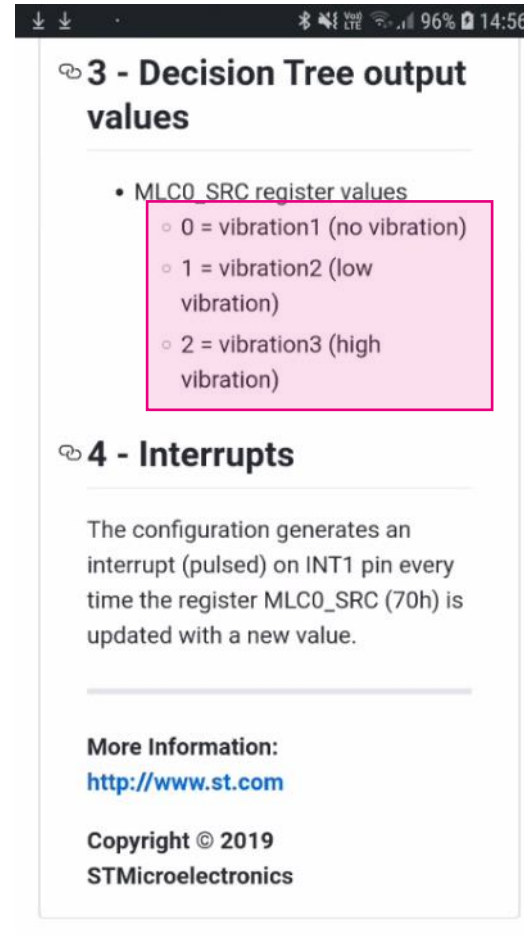
Open UCF file & long press on Raw button



Download UCF file to your phone

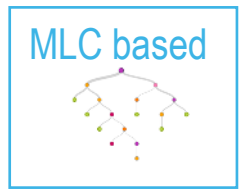


Read README.md file with description



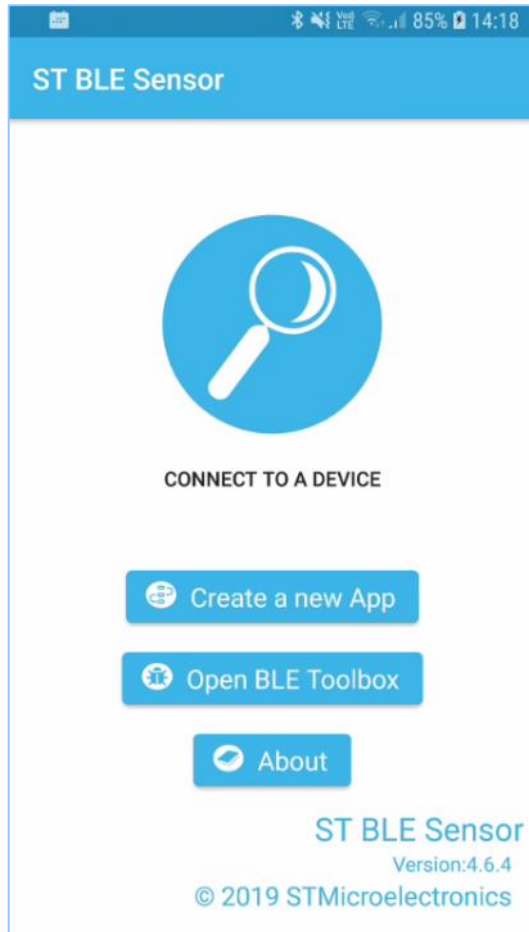
You will need this later on

Your entry point to ST MEMS sensors





ST BLE Sensor app for Android and iOS



SensorTile.Box



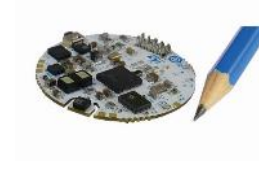
STWIN



SensorTile



BlueTile



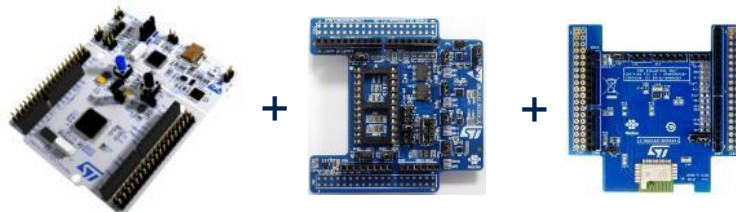
WESU1



BlueCoin



STM32Nucleo + MEMS + BLE expansion



Sensor data reception over BLE
Data plot and log, publish to cloud

Application for SensorTile.box
creation & upload

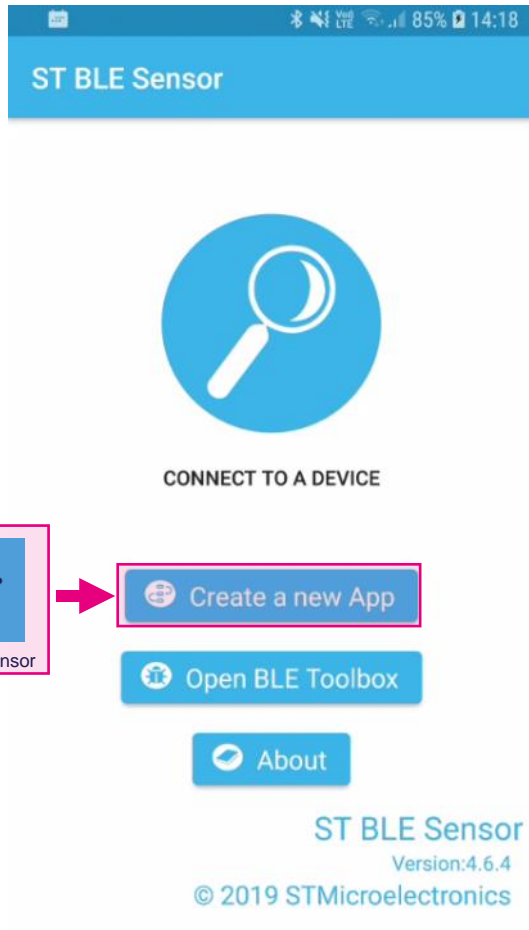
Support multiple platforms and
STM32Cube Function Packs
through **BlueST-SDK** protocol





Create new MLC App

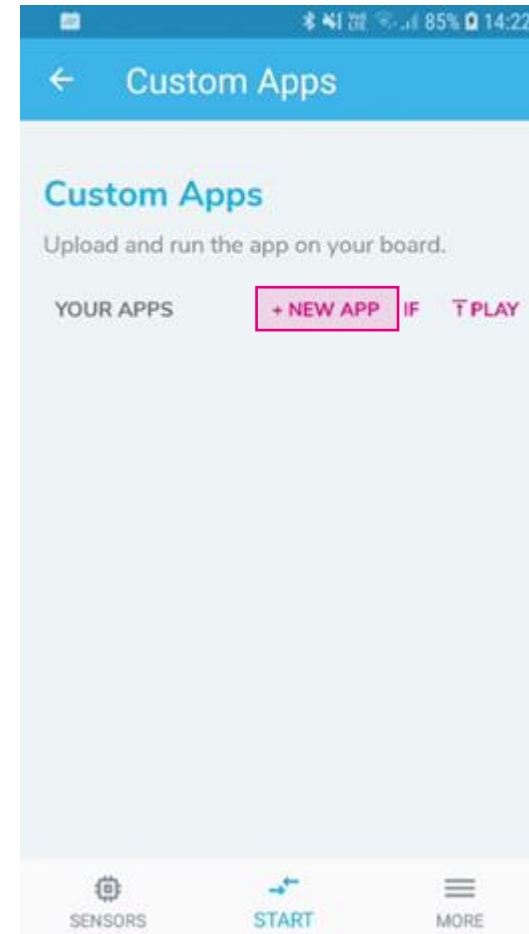
Start ST BLE Sensor app & opt to Create new App



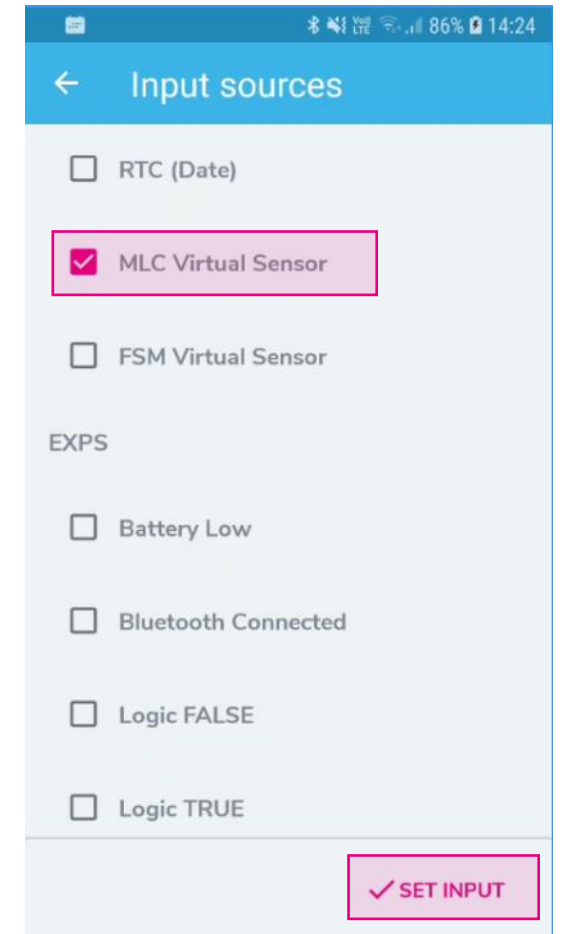
Scroll down & go to EXPERT view



Create new App



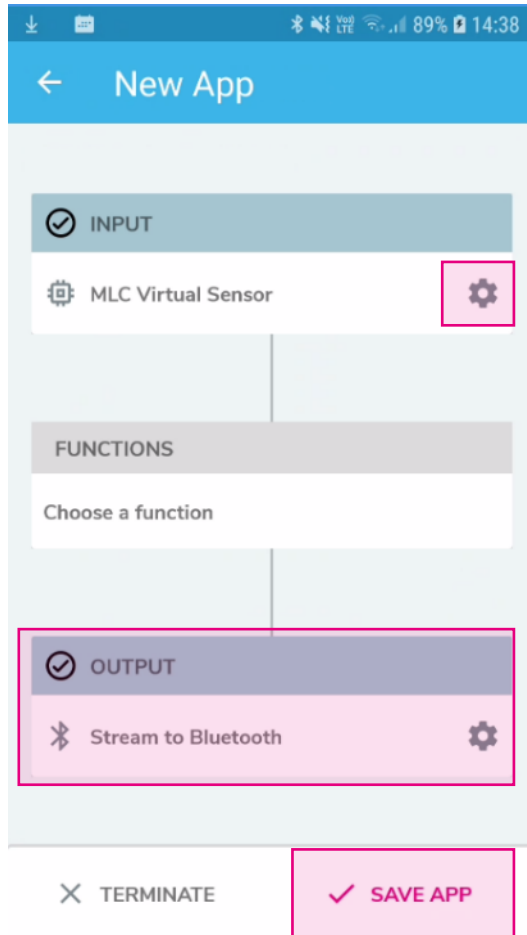
Select MLC as Input source



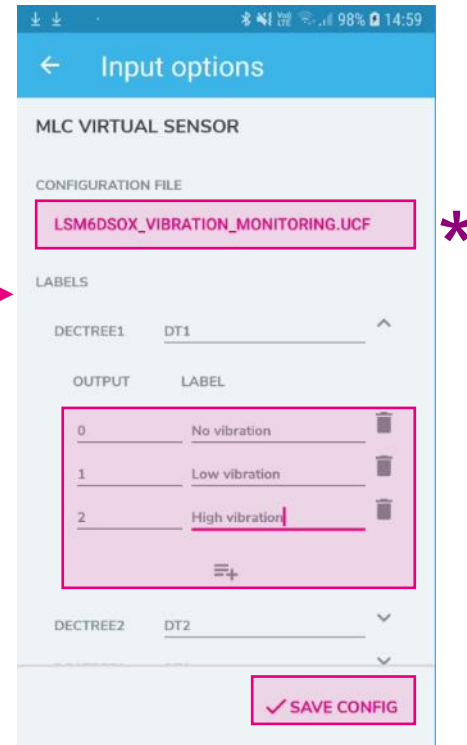


Run your MLC!

Configure INPUT,
set OUTPUT to Bluetooth

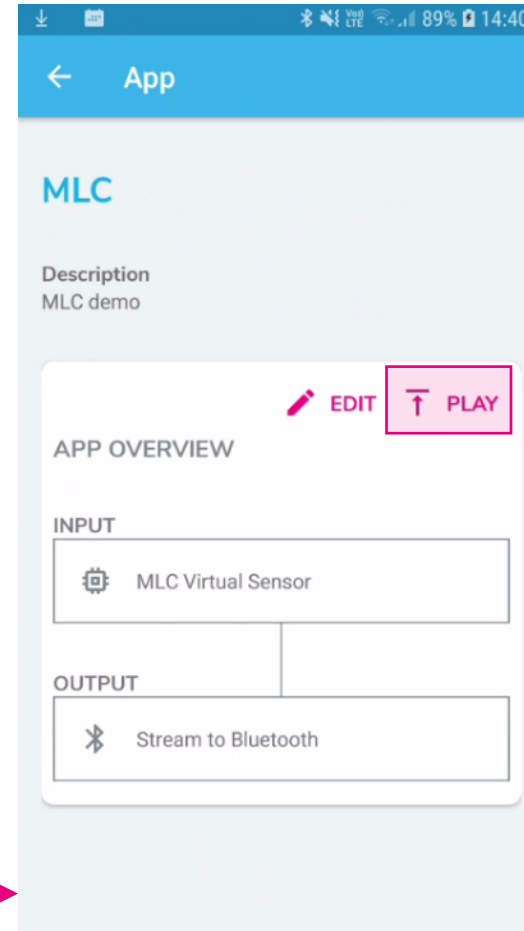


Select UCF file to be used &
label outputs

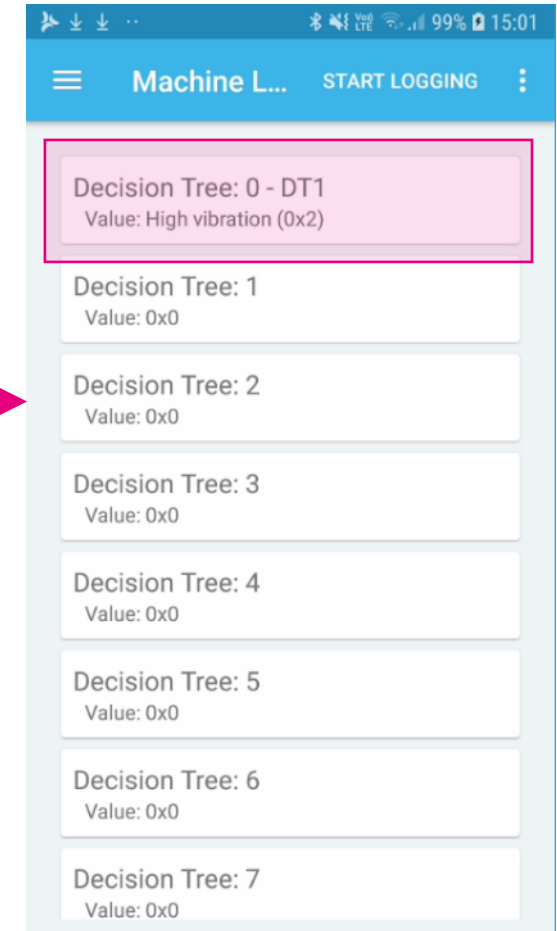


Output values are described
in README file on github.

Upload (PLAY) the program
to your SensorTile.box



Switch to MLC view &
see your results



*** Important note:** any UCF file from github or
generated by UNICO can be used here!