



LSM6DSRX iNEMOTM inertial module

Tools and GUI for Machine Learning Core



LSM6DSRX form factor tool & GUI Capture and process data

Two solutions for LSM6DSRX Machine Learning Core

Quick Prototyping

Performance Evaluation

Nucleo with Expansion board Tool & Unicleo GUI

Professional MEMS motherboard & Unico GUI









STM32 NUCLEO with EXPANSION

DIL24 adapter board LSM6DSRX STEVAL-MKI195V1

X-NUCLEO-IKS01A3

Software packages: UNICLEO GUI with X-CUBE-MEMS1

UNICO GUI for MLC development





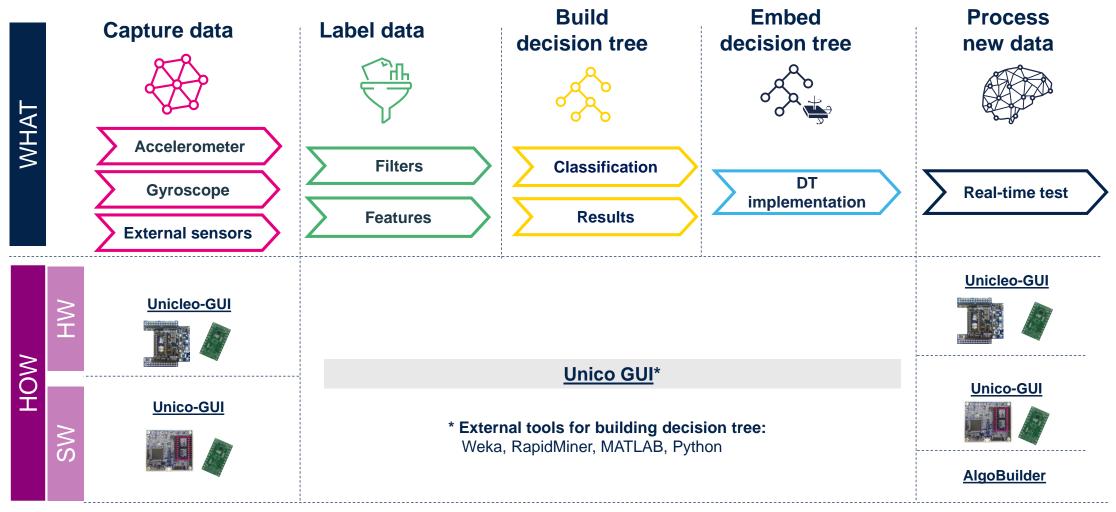


DIL24 adapter board LSM6DSRX STEVAL-MKI195V1

Software package: <u>UNICO GUI</u> Linux → STSW-MKI109L, Mac OS X → STSW-MKI109M Windows → STSW-MKI109W

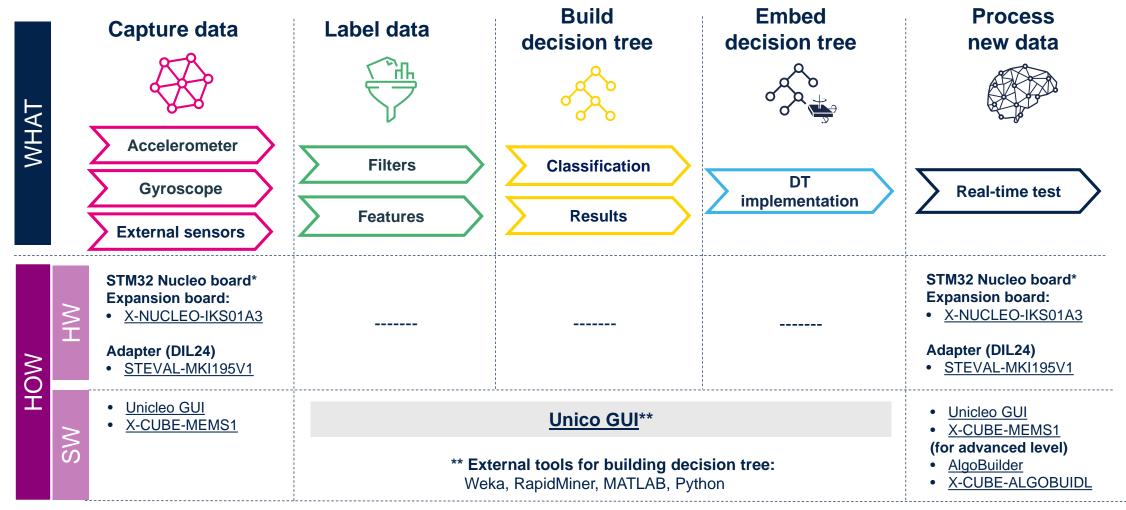


LSM6DSRX form factors & GUI Decision tree creation process



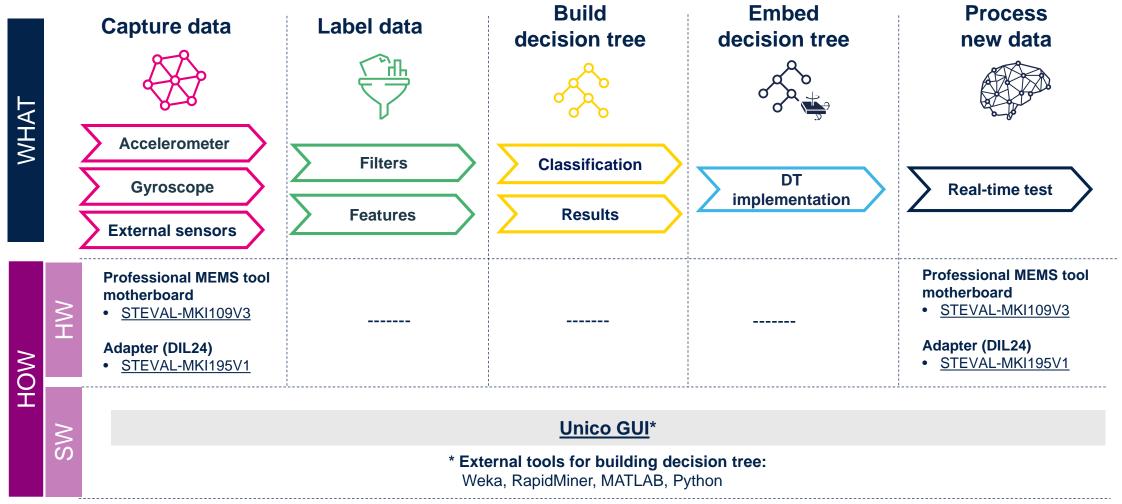


LSM6DSRX STM32 Nucleo with expansion board



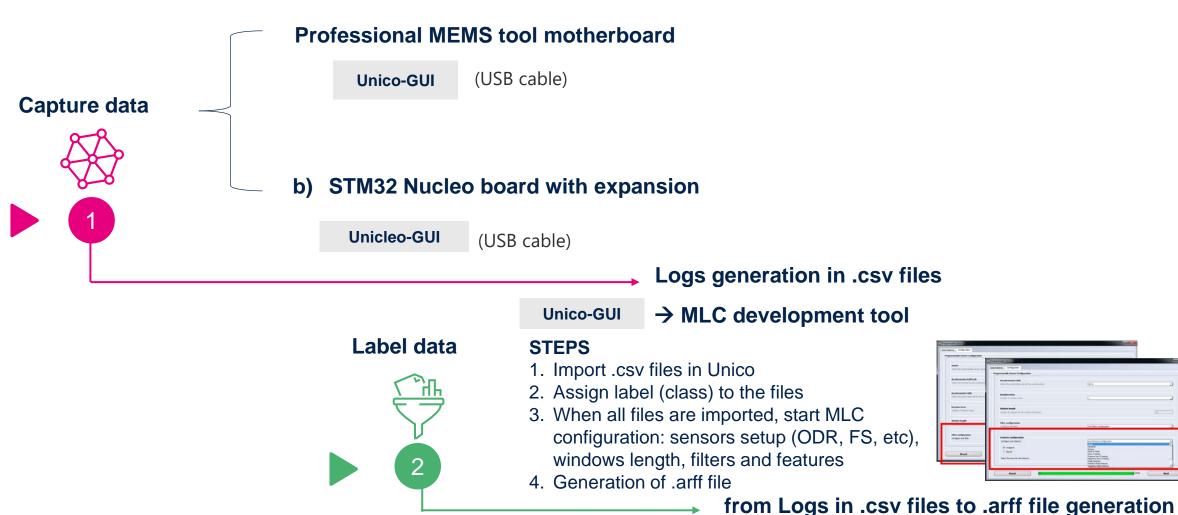


LSM6DSRX Professional MEMS tool motherboard



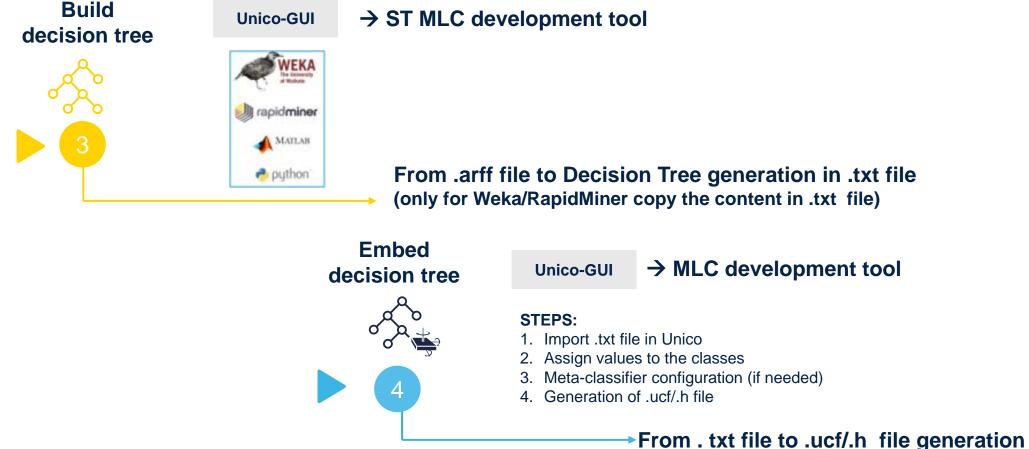


ST sensor tools Decision tree creation process – Dataset & label



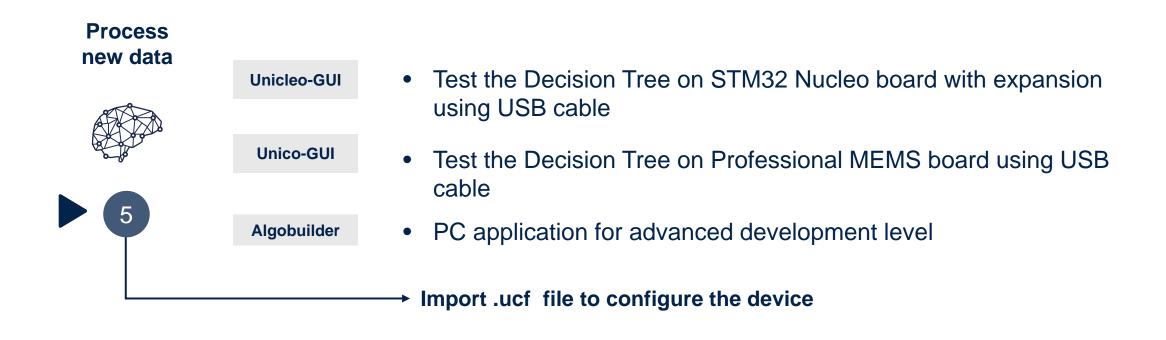


ST sensor tools Decision tree creation process – build & embed





ST sensor tools Real-time test with trained decision tree





AlgoBuilder GUI PC application



- AlgoBuilder is a graphical design tool to build and use algorithms
- AlgoBuilder GUI uses outputs from MLC and FSM to allow you to build more complex projects
- An existing MLC / FSM configuration (.ucf file) can be used



Explore MLC examples and resources

Decision tree examples are available online at the dedicated GitHub project for Machine Learning Core

https://github.com/STMicroelectronics/STMems_Machine_Learning_Core



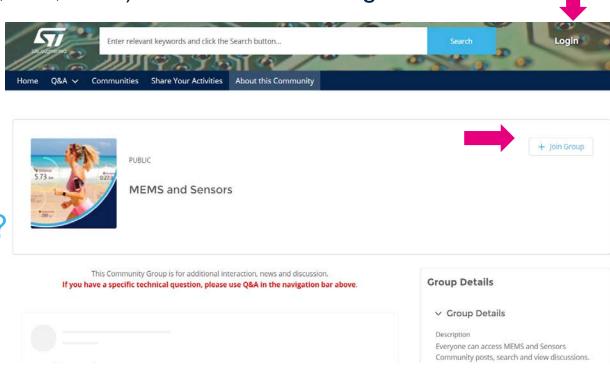


MEMS and sensors Community and Q&A

- MEMS and sensors Community
 - The latest information on MEMS product (HW, SW, tools) and reference designs
 - Join the community to...
 - ...share ideas and find sparks!
 - ...find potential customers

 Q&A: Do you have a technical question? Ask here!







MEMS and sensors Community and Q&A

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2. Join MEMS and Sensor community becoming a follower https://community.st.com/s/group/0F90X000000AXsjSAG/mems-and-sensors



3. Post your company competence / competitive advantage!

Refer to the MEMS and Sensor community or Q&A section for questions and updates. Our experts are there to help you!



Thank you

