

Machine learning at the edge

Tetris with ToF



NanoEdge AI Studio



Floor sensing

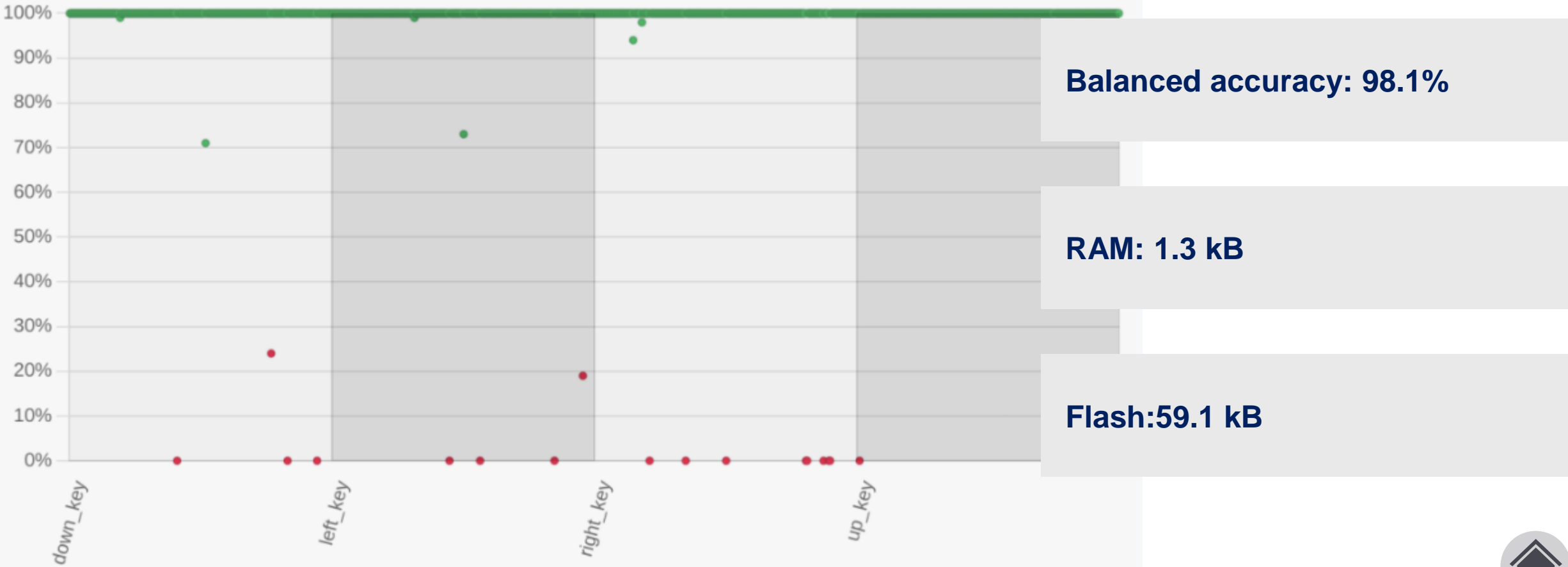


STM32Cube.AI



Machine learning at the edge for better sensors

Smarter Sensors



Developing your machine learning at the edge solution

NanoEdge AI Studio

Find the right one among millions of candidate (algorithms)

Fit any RAM or flash footprint

Learn on device for an always relevant solution

NanoEdge AI Studio

Top Bar: NANOEDGE AI STUDIO v3.2.0 | ST life.augmented

New project:

- AD: Anomaly Detection
- 1C: 1-Class Classification
- nC: n-Class Classification
- E: Extrapolation

Utils:

- DL: Data Logger
- DM: Data Manipulation

Your projects:

- AW3_bedBelt (Last update: 28 Nov 2022 05:45)
 - AD: STEVAL-STWINKT1B, Generic, 6 Axes
- Demo_CLF1
 - nC: STEVAL-STWINKT1B, Generic, 1 Axis
- AW2_BedBelt
 - nC: STEVAL-STWINKT1B, Generic, 6 Axes
- AD - Fan table top demo
 - AD: STEVAL-STWINKT1B, acc, 3 Axes
- arc_detect
 - AD: STEVAL-STWINKT1B, Generic, 1 Axis
- Arc_test

Links:

- NanoEdge AI Studio Project Walkthrough
- MOOC: from Datalogging to Integration
- Tutorial: n-class Classification
- NanoEdge AI Studio Documentation
- Article: Guidelines for Successful Datalo...
- FP-AI-MONITOR1: STM32Cube Function pack for ultra-low power STM32 with artificial intelligence (AI) monitoring application based on a wide range of sensors
- CNC Mill Tool Wear: Know if a finished product will pass visual inspection (Predictive maintenance)
- Energy efficiency dataset: Predict the heating and cooling needs of a building (Smart building)
- Hole drilling deviation: Know if your drill bit departed from a pre-selected trajectory



Floor material ID with ML for robot vacuum cleaners

Floor sensing



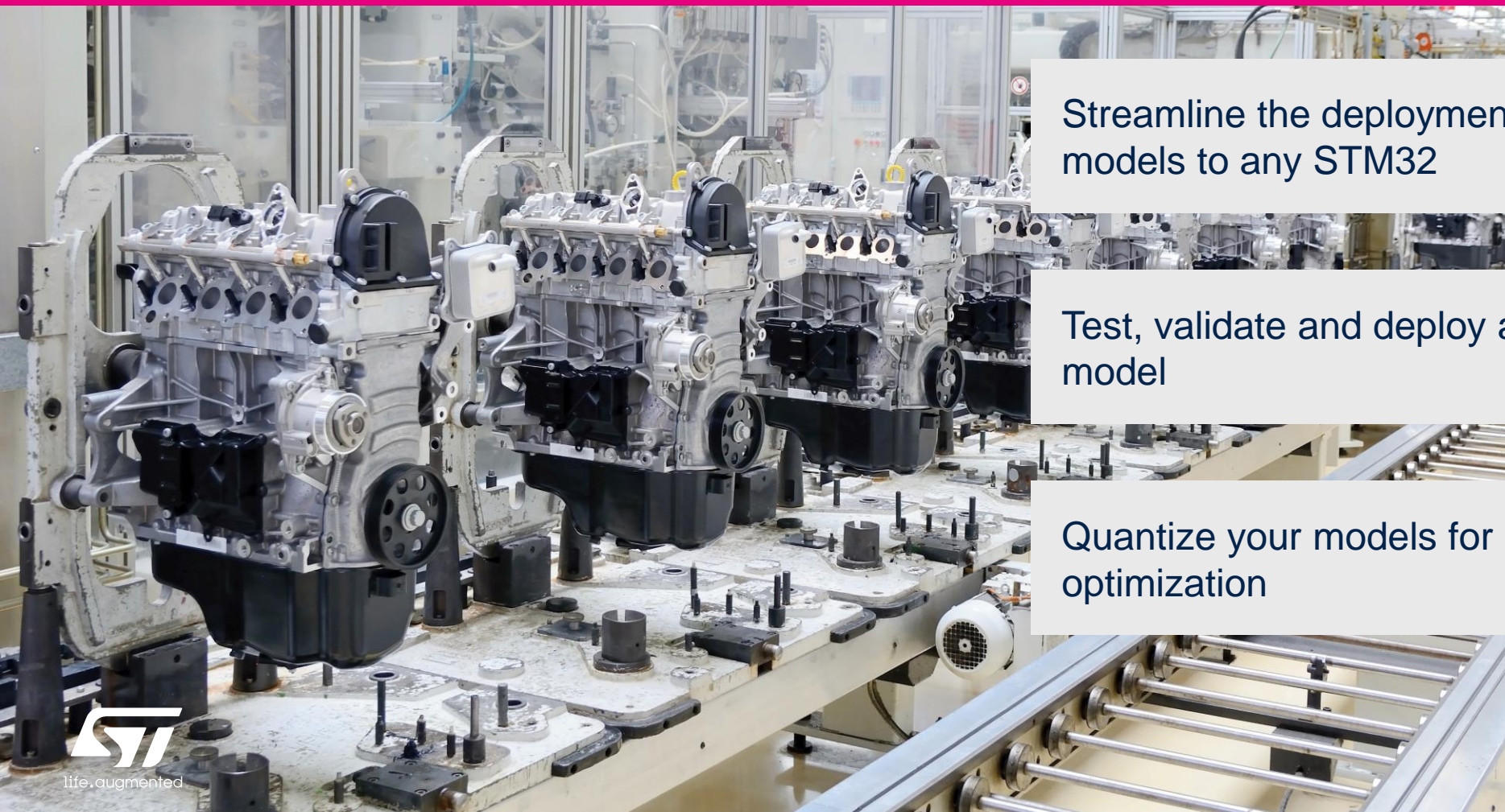
Teaching new tricks and adding features to existing products

Easily classify materials with sensors already on your platform

A smarter vacuum for every surface today

Implementing your AI solution on STM32

STM32Cube.AI



Streamline the deployment of your machine learning models to any STM32

Test, validate and deploy any ONNX compatible model

Quantize your models for an unmatched edge optimization

Cube.AI

