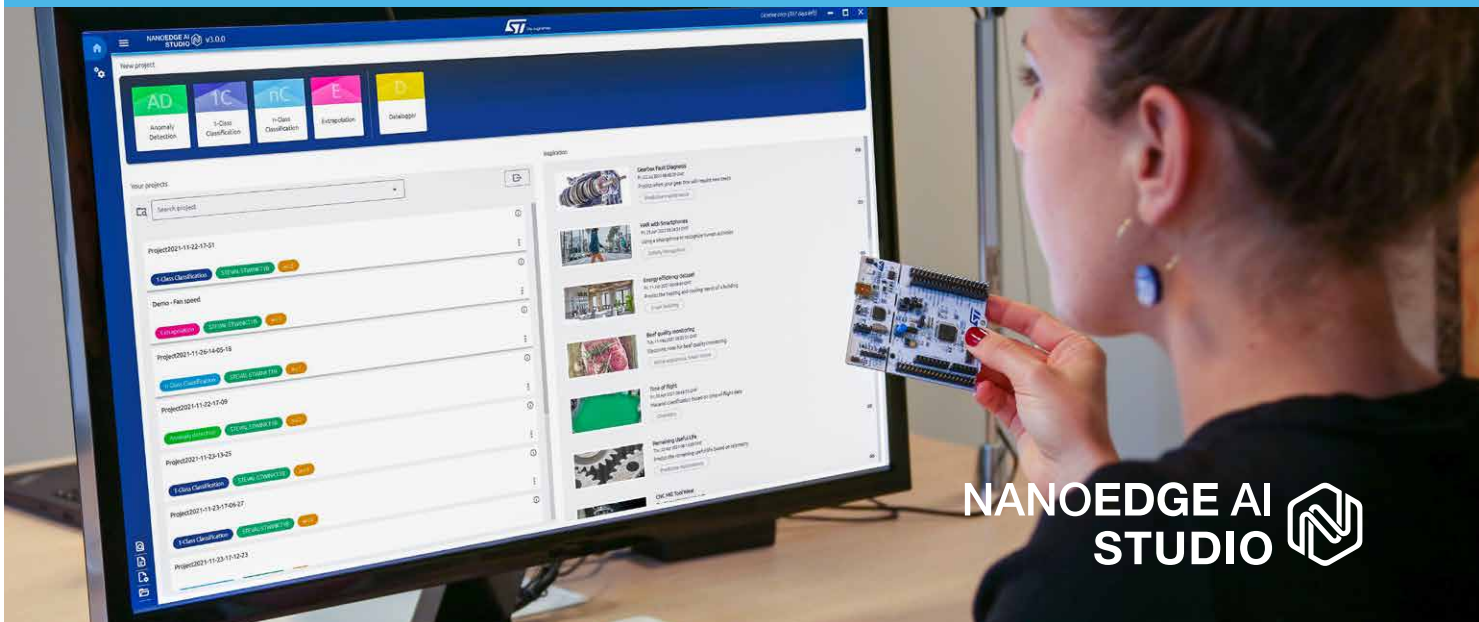


# NANOEDGE AI STUDIO

Development tool to quickly take benefit from Machine Learning on the deep edge



NANOEDGE AI STUDIO 

Complete solution to integrate Machine Learning capabilities into STM32-based devices in a quick, easy, and cost-effective way

**NanoEdge\* AI Studio** is a Machine Learning tool, which allows users to bring true innovation to their end design. In just a few steps, developers can automatically generate an optimized Machine Learning library for their Edge AI solutions, based on a minimal amount of data.

**Add intelligence to your product!** Create fully customized and cloud-independent AI solutions for anomaly detection, classification, and regression applications:

1. Provide the tool with real-life application data examples
2. Generate your optimized, tiny ML library, capable of on-device learning and ready for product integration

Note: \* is a registered and/or unregistered trademark of STMicroelectronics International NV or its affiliates in the EU and/or elsewhere.

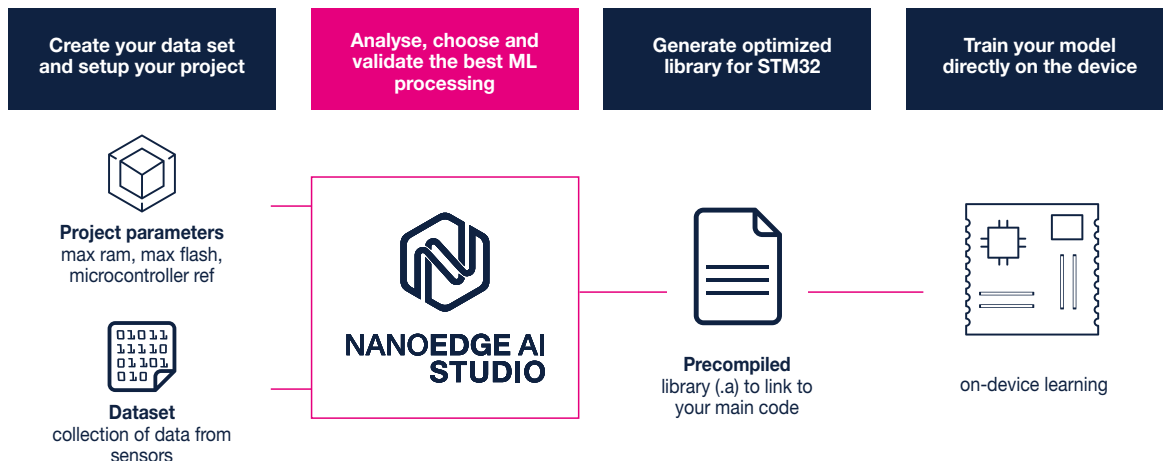
## KEY FEATURES & BENEFITS

- Train & infer directly on the target
- No data sent to the cloud
- Ready-to-use optimized model creation
- Reduce development time and effort: benchmark millions of ML algorithm combinations in minutes
- Generate optimized anomaly detection, classification and extrapolation libraries even without AI expertise

## KEY APPLICATIONS

- Industrial predictive maintenance
- Home appliance anomaly detection
- Person presence detection
- Motor control condition monitoring

## Create your own optimized ML library in a matter of minutes



## Condition monitoring with NanoEdge AI Studio



### “On Device Training”

Allow the anomaly detection algorithm to be adapted to the environment of each machine for improved accuracy.



### Real-time processing and low-latency

Essential for condition monitoring applications where timely detection of problems is critical.



### Reduced data transmission

Reduce the constraints on the network.  
Sustainable on energy.



### Enhanced privacy and security

The raw data is processed at the edge, which prevents data leakage during transmission or storage.



### Cost savings

Compatible with after-market approach.  
Reduce costs on infrastructure and data storage.



**NanoEdge AI Studio now supports ST's sensors with ISPU**

**Get started today!**

**Download NanoEdge AI Studio**

<https://stm32ai.st.com/nanoedge-ai/>



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