NANOEDGE AI STUDIO

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

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

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

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

www.st.com/stm32ai
Create your own optimized ML library in a matter of minutes

- Create your data set and setup your project
- Analyse, choose and validate the best ML processing
- Generate optimized library for STM32
- Train your model directly on the device

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/