

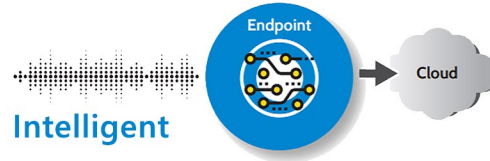
# SensiML™ Analytics Toolkit

AutoML tool for building ultra-compact, intelligent IoT sensor algorithms

## Transform Your IoT Device from Being Merely Connected to a Cloud to a Truly Intelligent Endpoint at the Edge

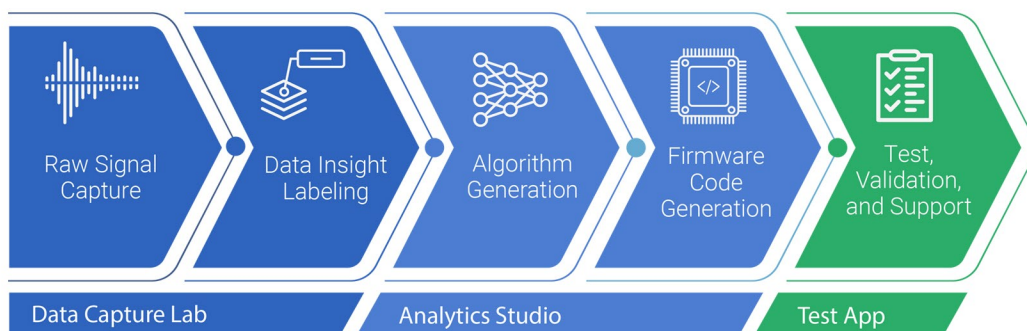


- High Power Consumption
- High Latency
- Remote Intelligence



- Power and Bandwidth Optimized
- Local Real-Time Data Processing
- Remote Intelligence

## Build Intelligent Endpoints Quickly and Easily — From Start to Finish



## Significant Benefits to Both the Product and Development Process

### Significant TTM Gains

5x faster sensor algorithm development over AI/ML expert hand coding

### Optimized AI, No Experts Required

Data science built into tool usable by mainstream developers

### Code that Runs on MCUs not CPUs

Enabling practical AI application on embedded wireless IoT device

### Power Efficiency on Multiple Levels

Smart compilation with auto-gen MCU, DSP, and FPGA optimizations

### Extensibility and Flexibility

Add algorithms, change HW targets, customize resulting code, and more

### Proven Solution

Initially launched in 2016 as Intel™ Knowledge Builder, now greatly expanded

# Applications

Get started at [sensiml.com/plans/](https://sensiml.com/plans/)

SensiML Toolkit enables AI for a broad array of resource constrained time-series sensor endpoint applications. These include a wide range of consumer and industrial sensing applications. Our growing library of data transformation and pattern recognition libraries can condense voluminous data streams into the kernels of real-time insight that actually matter. Whether sourced from accelerometers, load cells, strain gauges, microphones, gyroscopes, passive IR, body electrodes, voltage, or current measurement, the approach and endpoint intelligence benefits are the same.



## Industrial

- Anomaly detection
- Process control
- Predictive maintenance
- Safety Wearables



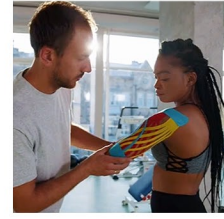
## Consumer

- Activity Recognition
- Gesture Recognition
- Audio event detection
- Motion detection



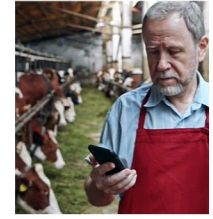
## Commercial

- Predictive maintenance
- Lighting Control
- Connected cities
- Safety Wearables



## Healthcare

- Biosensor Patterns
- Activity monitoring
- Acoustic signatures
- Device sensor fusion



## Agriculture

- Anomaly detection
- Quality inspection
- Precision farming
- Animal husbandry

## SensiML Toolkit Components

### Data Capture Lab

- Train/test data collection
- Data labeling and metadata annotation
- Video annotation tools
- Auto segmentation and triggering
- Multi-user project collaboration
- Automated data management
- Windows™ and Android™ versions



SensiML Data Capture Lab Screen

### Analytics Studio

- Server based AI code-generation engine
- Classic ML classifiers thru xNN algorithms
- Automatic or Directed Feature Engineering
- Simple GUI and Python expert interfaces
- Cloud Service and Private Server options

### Test App

- Test tool for model validation on device
- Real-time and logged collection
- Rich visualizations and debug info
- Windows and Android versions



SensiML Analytics Studio Screen

For more information visit [sensiml.com](https://sensiml.com) or email [info@sensiml.com](mailto:info@sensiml.com)