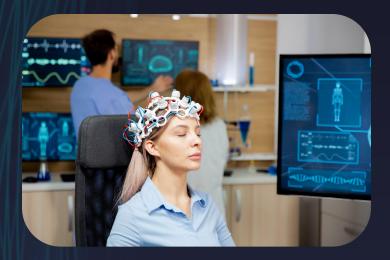


# **Enhancing Human Health With Edge Al**

Edge AI is revolutionizing the way we approach health and well-being. On-device intelligence can **transform health devices** with real-time insights, enhanced privacy, and extended battery life.

Edge Impulse provides all the tools you need to make your devices smarter, from stress detection to heart or glucose monitoring to smart alarms to sleep quality assessment.

Deploy to **any target** with algorithms optimized for **any hardware**, from high power GPUs down to the smallest wearable-enabled MCUs. Count with confidence from **prototype to production** and accelerate **time to market**.





Discover the Edge Impulse platform and get started today

Used by:





SLATE SAFETY

### Edge Impulse Health Reference Design

A comprehensive hardware and software design solution:

- Health vital sensing
- Pre-built algorithms
- PPG/ECG/Temp/VOC sensors
- Accelerometer





## **Transforming Wearables & Medical Devices**

The industry-leading health ML platform

We help companies scale and productize clinical grade Edge AI health devices and wearables, optimized for low power and cost.

#### Build datasets at scale

**Refine with advanced DSP** 

Generate powerful algorithms

Deploy to any hardware

## Areas of Expertise

#### Scale clinical trials

Proven infrastructure to reliably scale clinical studies from a few to thousands of subjects

#### AI/ML on any health device

Deploy innovative algorithms to COTS hardware, cell phone apps, or any other device

#### Continuously improve algorithms

Autonomously improve your algorithm with streaming data coming from users and new studies

#### Speed up innovation

Accelerate your development with dedicated health solution expert support, slashing your time to market from years to months



#### Navigating your FDA Pathway

Read our recommendations or ML best practices with FDA device approvals

### **Product Features**

Drive valuable health insights with diagnostic and predictive algorithms

**ECG/PPG:** Monitor heart health in real time

**EEG:** Capture brainwave patterns for comprehensive neurological assessments

Motion: Track movement and posture

**Temperature:** Monitor body temperature for health changes

**HRV DSP block:** Detect heart rate variation with PPG sensors

## Edge Al Advantages

Faster time to market, with higher accuracy, and lower cost

#### Real-Time: Instant feedback and insights

**Privacy boost:** On-device processing for extra security

Low latency: No cloud delays

Offline Use: Works anywhere, anytime

Battery life: Less cloud sync, more uptime, and longer life

**Personalized:** Tailored health recommendations

**High accuracy:** Reliable and actionable insights

**Behavior analysis:** Understand habits for better wellness