

Edge Impulse

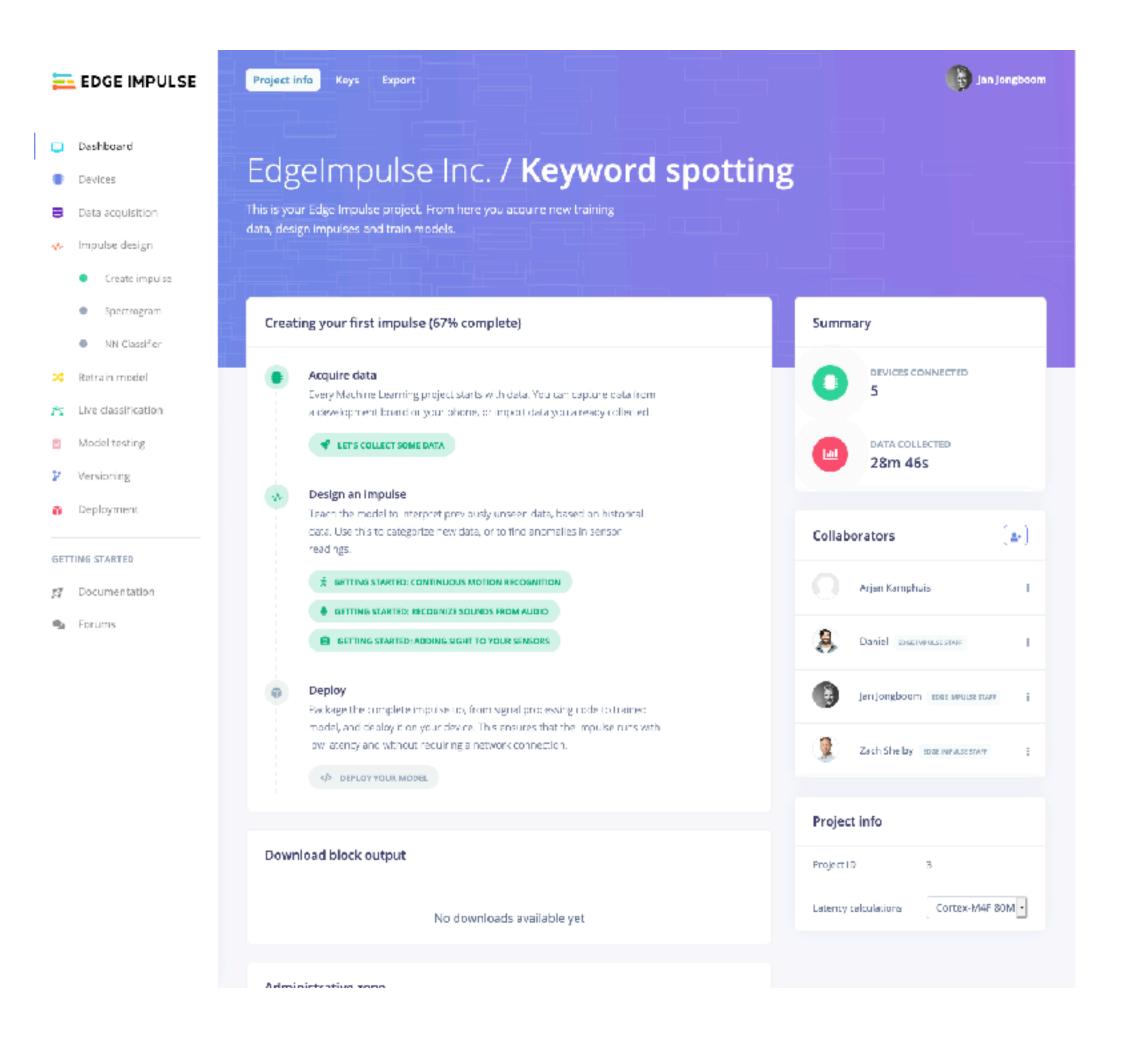
The place to build embedded Machine Learning models

From engineers (not data scientists!) for engineers

Every step of the way, from data collection to deployment

Already >35,000 real ML projects created!

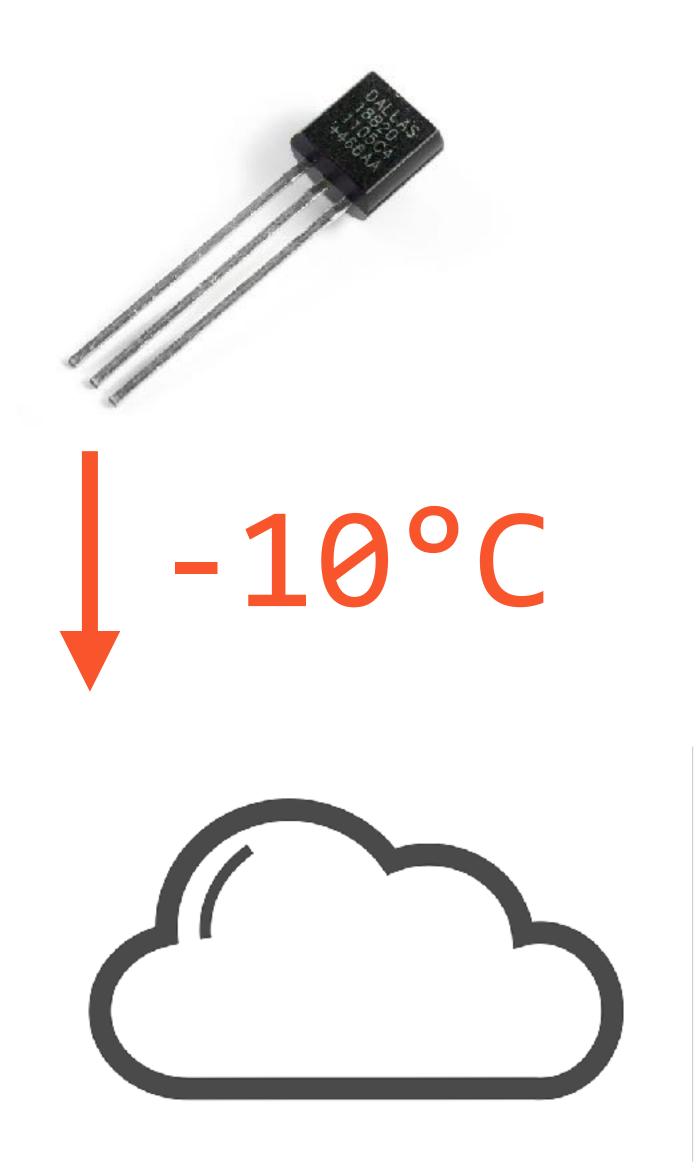
Free for developers: edgeimpulse.com





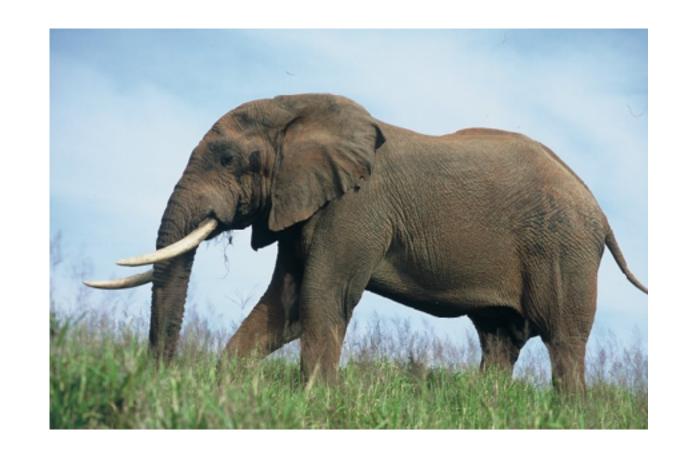
Some things are easy...







Some things are MUCH harder









But... this is where the interesting part is

Infinite sounds, images, motions all around us

Imagine all the data your sensors gather, but just throw away

Devices are cost, bandwidth or power constraint



Machine learning helps you find the rules

Normal programming



Machine learning

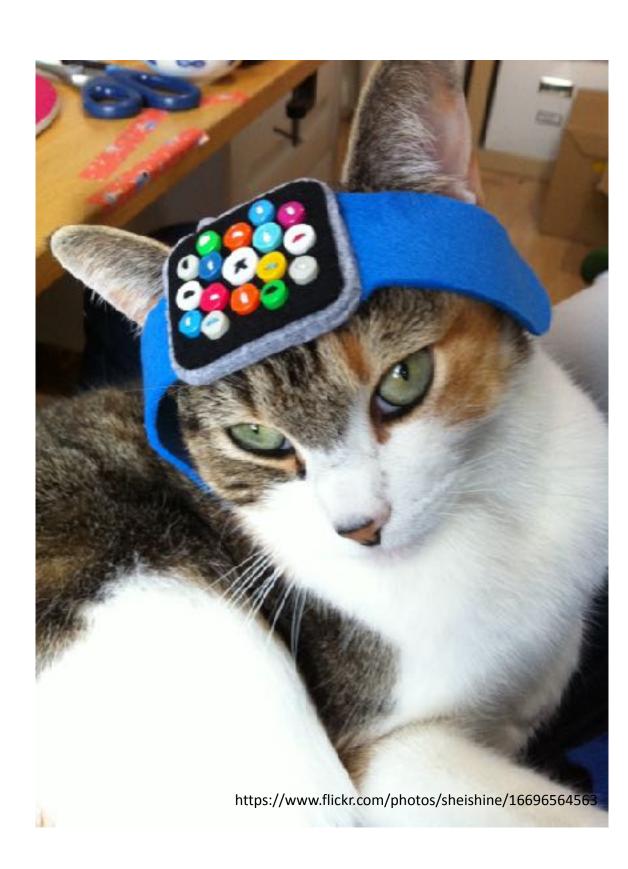




Widely applicable







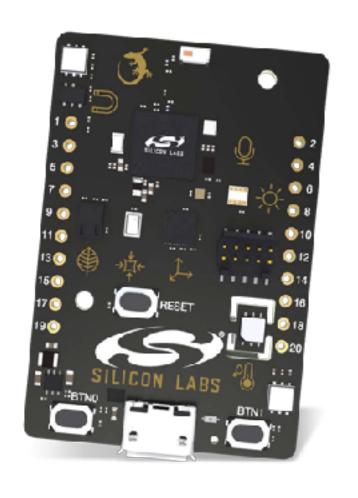
Biosignal analysis



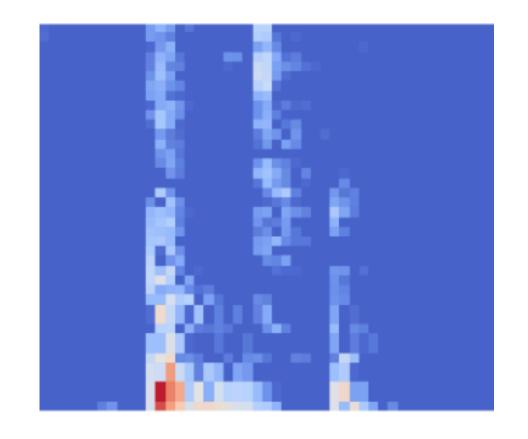
Detecting abnormal vibration



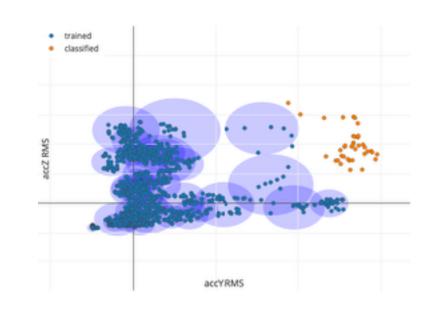
Your first ML project



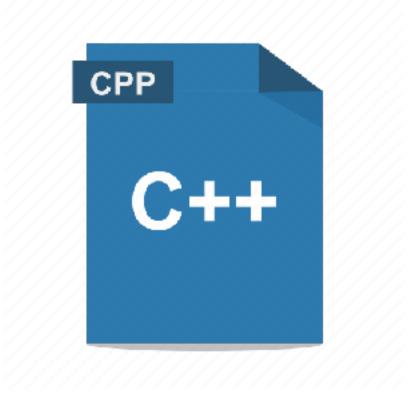
1. Gather data
Thunderboard Sense 2,
fully supported by Edge Impulse



2. Extract features
On-device intelligence is not new
Go as far as possible with DSP



3. Learn from the data Classification, regression, anomaly detection?



4. Deploy to device It's just math. DSP + ML w/ full hw acceleration on SiLabs silicon.



