tinyML® Trailblazers

Ultra-low power machine learning at the edge success stories

tinyML Success Stories

with Massimo Banzi

Co-Founder, Arduino

INSPIRE-EDUCATE-ILLUMINATE

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www.nxp.com/ai
Deploy TinyML into the Real World - Plug and Play ML

Sensors:
- modulated and ready-to-use sensors to simplify the setup process
- support 500+ grove modules

Codecraft:
- no code Programming platform to Get Started With TinML
- supports Arduino, Python, C or JavaScript etc.

Wio Terminal:
- completed AI platform integrated with a 2.4” LCD Screen, onboard IMU (LIS3DHTR), microphone, buzzer, microSD card slot, light sensor, infrared emitter (IR 940nm)

Edge Impulse:
- to optimize data utilization and enable deploy a machine learning model faster than ever

TensorFlow Lite:
- to easily train low memory usage machine learning models

Motion /Gesture/Speech /Smell/ Sports
Barcode/Face/image

Applications

Artificial Nose
AI Thermal Camera for Safe Camping
Azure IoT Squirrel Feeder

Sense
Train
Inference
STMicroelectronics provides extensive solutions to make tiny Machine Learning easy
ENGINEERING EXCEPTIONAL EXPERIENCES

We engineer exceptional experiences for consumers in the home, at work, in the car, or on the go.

www.synaptics.com
SynSense builds sensing and inference hardware for ultra-low-power (sub-mW) embedded, mobile and edge devices. We design systems for real-time always-on smart sensing, for audio, vision, IMUs, bio-signals and more.

https://SynSense.ai
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tinyML - Enabling ultra-low Power ML at the Edge

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Our next tinyML Trailblazers Series
Success Stories with Christopher B. Rogers
(CEO, SensiML Corp)

LIVE ONLINE December 7th, 2022 at 8 am PDT

Register now!
Reminders

Slides & Videos will be posted tomorrow

tinyml.org/forums  youtube.com/tinyml

Please use the Q&A window for your questions
Chris Rowen

Chris is a Silicon Valley entrepreneur and technologist, now VP of AI Engineering and Product for Webex Collaboration in Cisco. Most recently he was co-founder and CEO of BabbleLabs, a speech ML company, acquired by Cisco in 2020. Prior to Babblelabs, Chris served as CTO for Cadence’s IP Group, which he joined after Cadence’s acquisition of Tensilica, the company he founded in 1997 to develop extensible processors. He led Tensilica as CEO and later, CTO, to develop one of the most prolific embedded processor architectures, especially for compute-intensive embedded processing. Chris was a pioneer in developing RISC architecture and helped found MIPS Computer Systems in 1984. He has an MS and PhD in EE from Stanford and a BA in physics from Harvard. He was named an IEEE Fellow in 2015 for his work in development of microprocessor technology.
Massimo Banzi

Massimo Banzi is the co-founder of Arduino. He is an Interaction Designer, Educator, Open Source Hardware pioneer and TED Speaker. He has a background in electrical engineering but spent most of his early career working as a software architect on large web projects both in Milan and London. He is a pioneer of the commercial web in Italy having been the Webmaster of Italia Online in its early years. He spent 4 years at the Interaction Design Institute Ivrea as an Associate Professor and worked as a consultant on projects for brands like Prada, Persol, Whirlpool, V&A Museum, Artemide and Adidas. Massimo has taught workshops and has been a guest speaker at institutions all over the world. Always interested in what's new, he started the first FabLab in Italy. He is also the author of the book “Getting Started with Arduino” published by O’Reilly. He currently teaches at USI university Lugano, SUPSI Lugano Switzerland and is a visiting professor at CIID in Copenhagen.
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