

tinyMLedu:

widening access to tinyML
education and resources



Brian Plancher

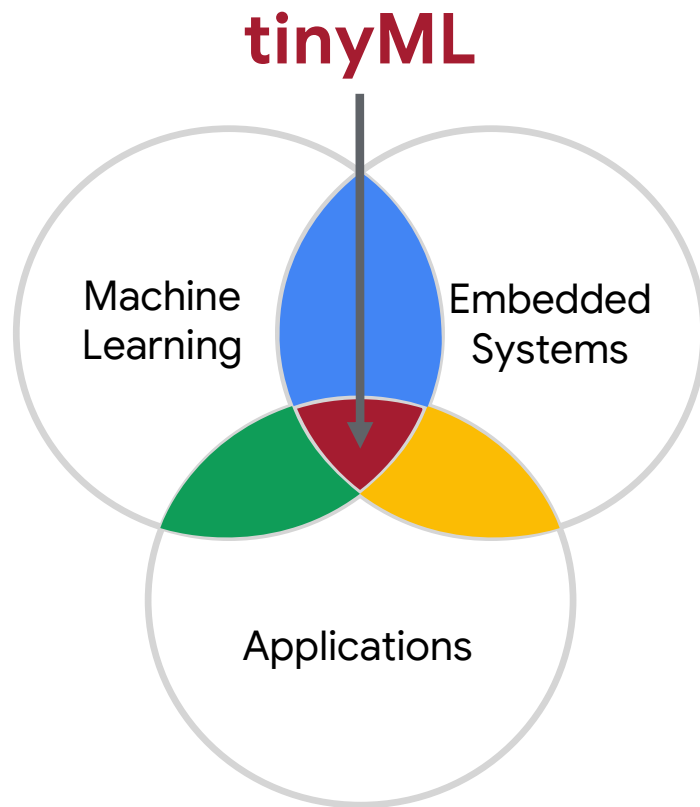
PhD Candidate

Harvard University

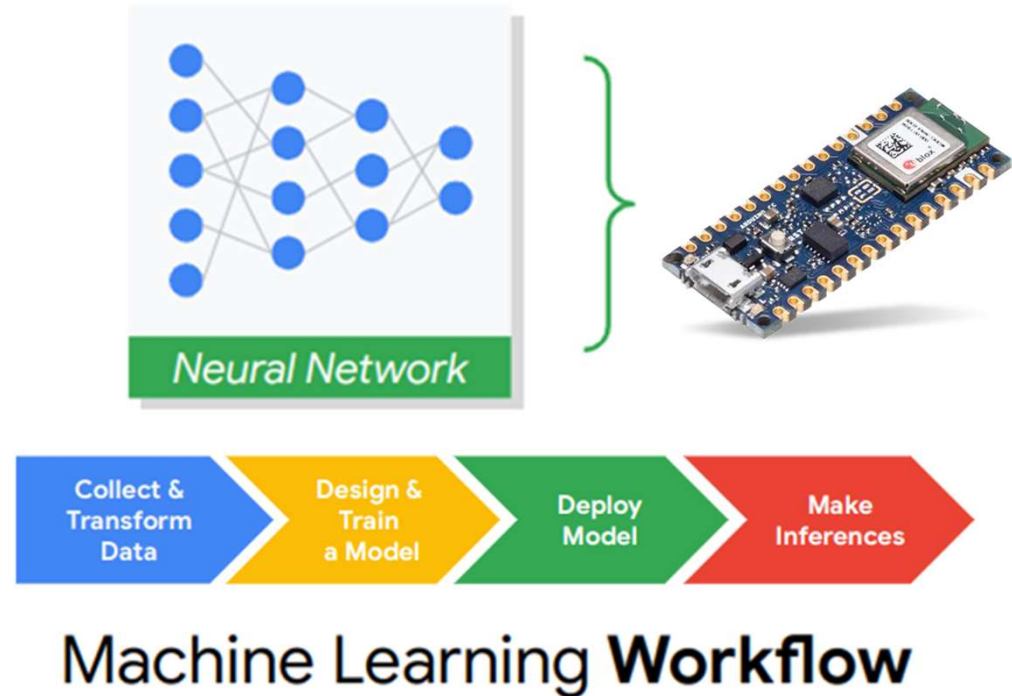
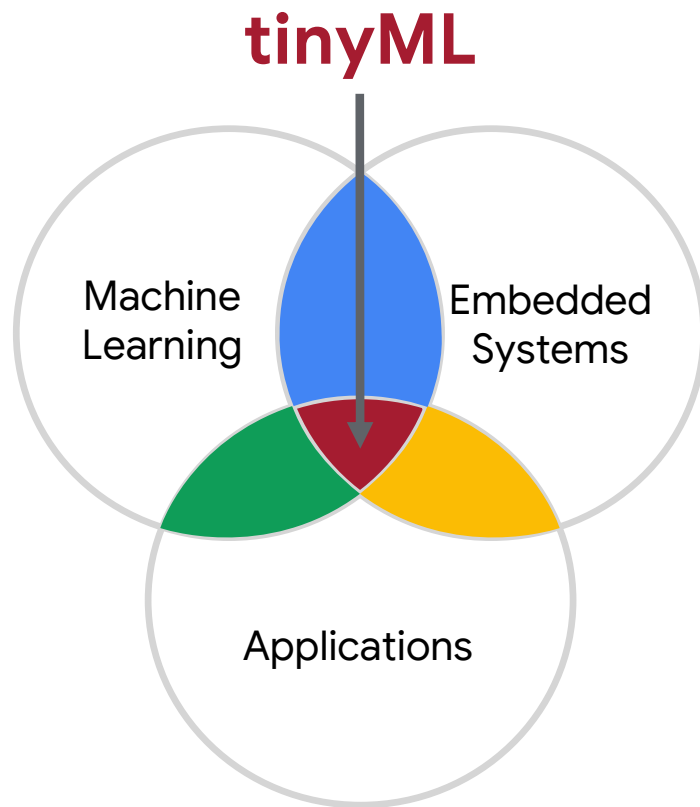
BrianPlancher.com



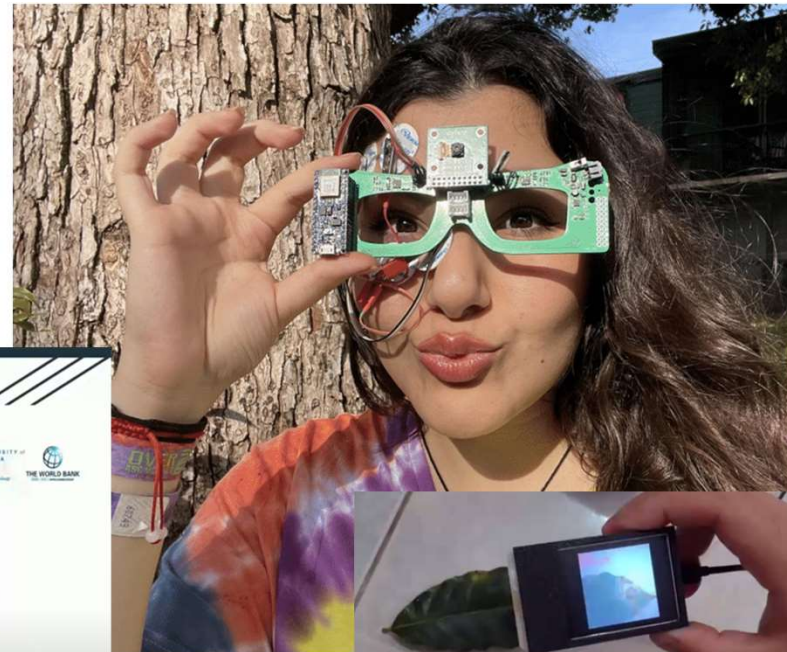
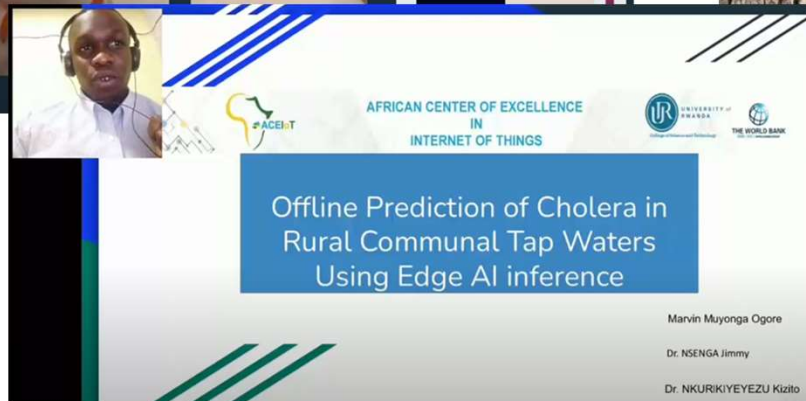
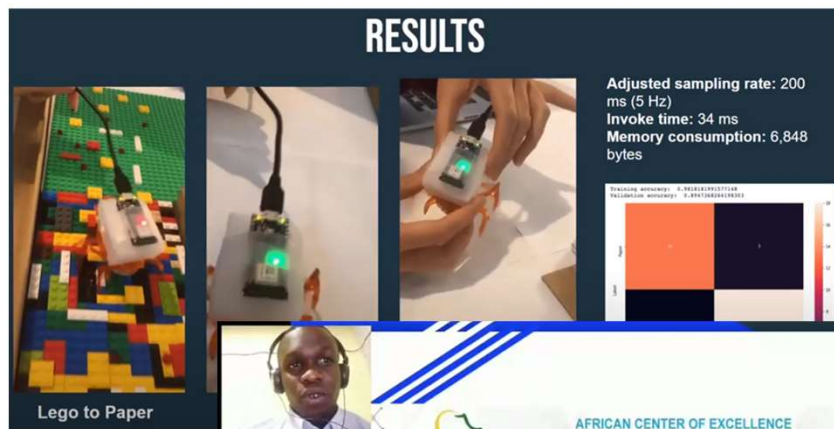
tinyML is a great **education tool**



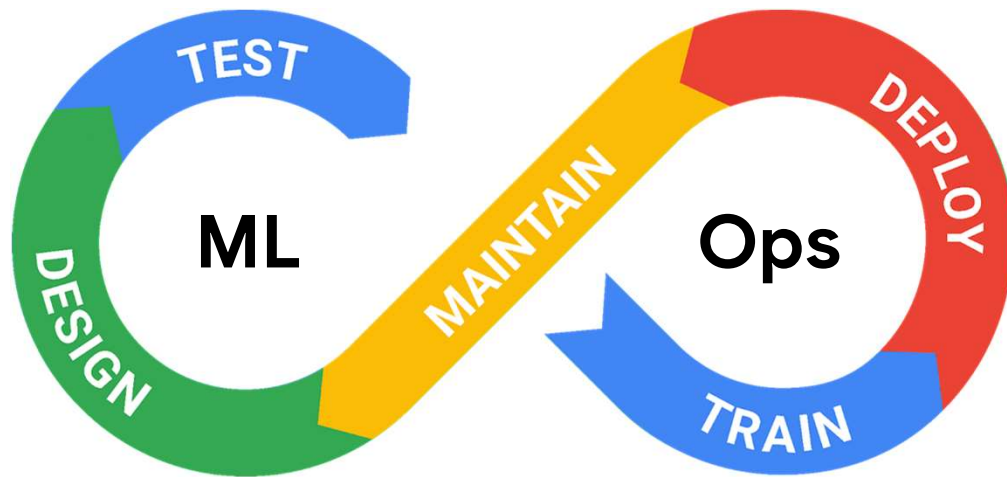
tinyML is a great **education tool**



Project Based tinyML is a great [^]education tool



tinyML is a great **education tool**

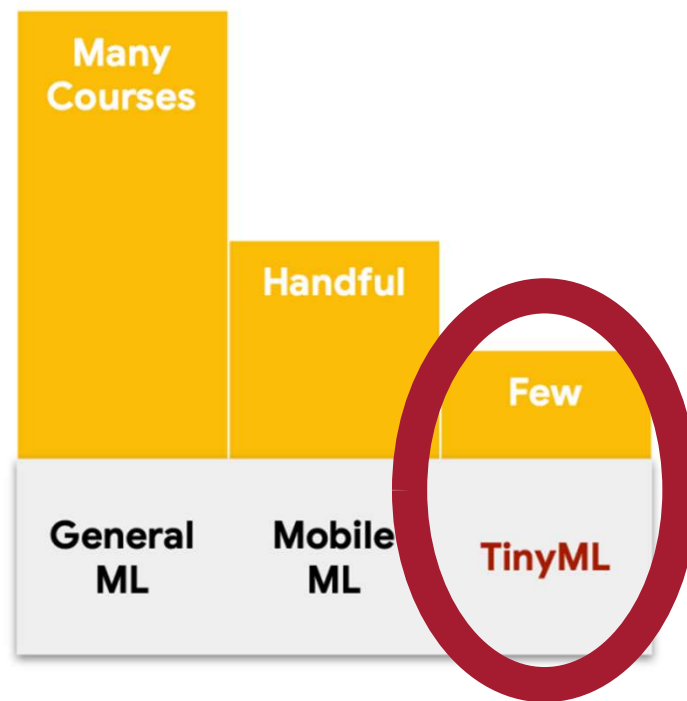
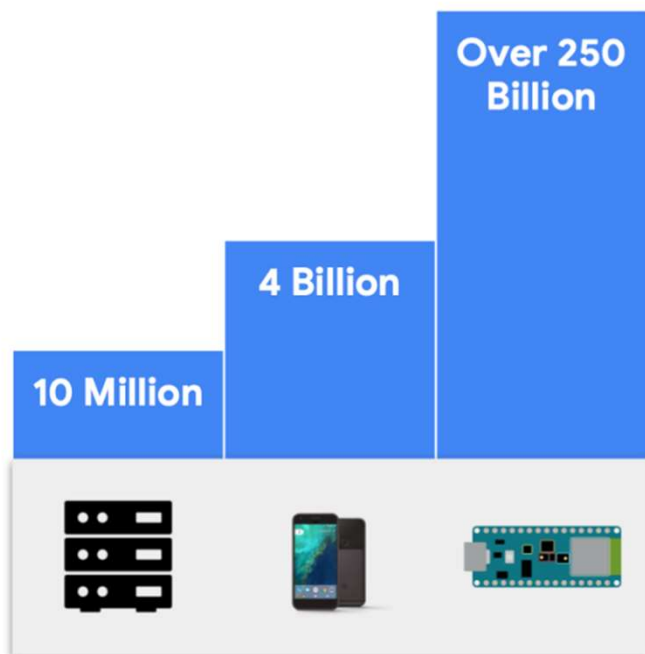


edX Course 4
Coming Soon!

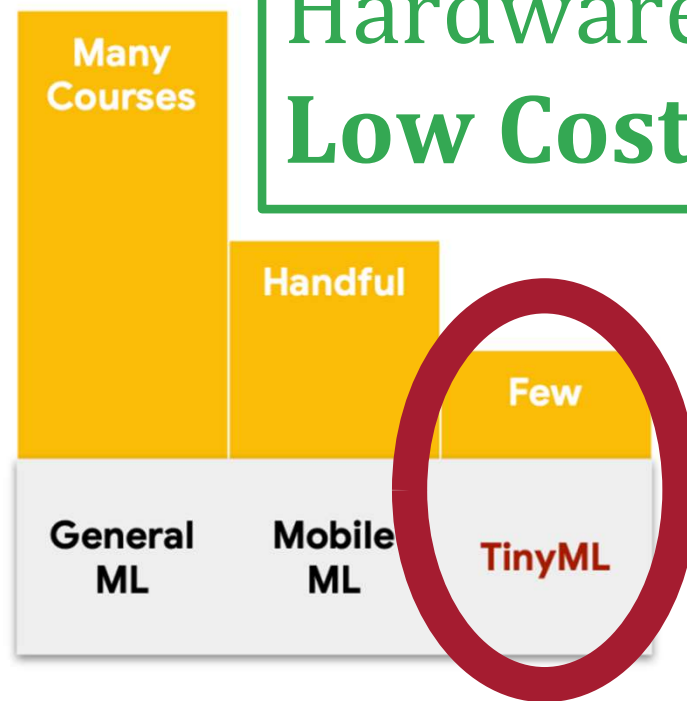
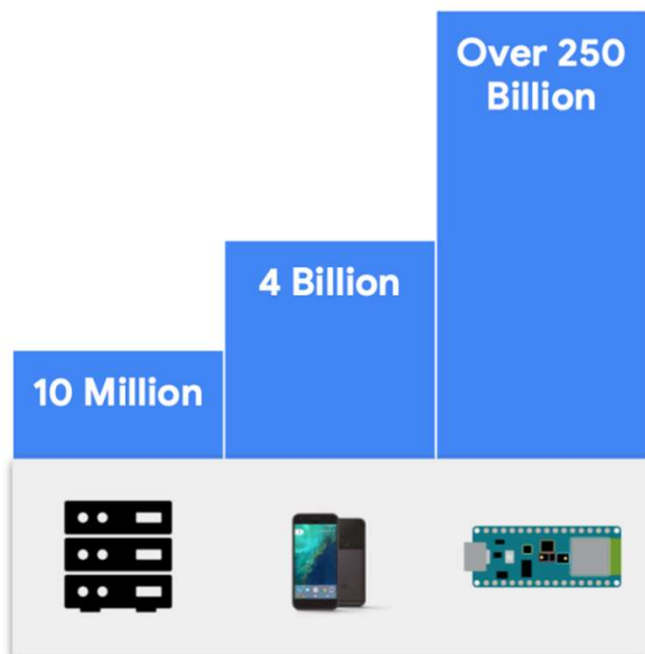
tinyML can
also explore
**deployments
at scale!**

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education and resources

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Hardware that is
Low Cost \neq No Cost!

tinyMLedu is structured as a series of working groups

tinyML4D

tinyML4K12

tinyML on edX

tinyML4Xlation

tinyML4STEM

Your Idea?

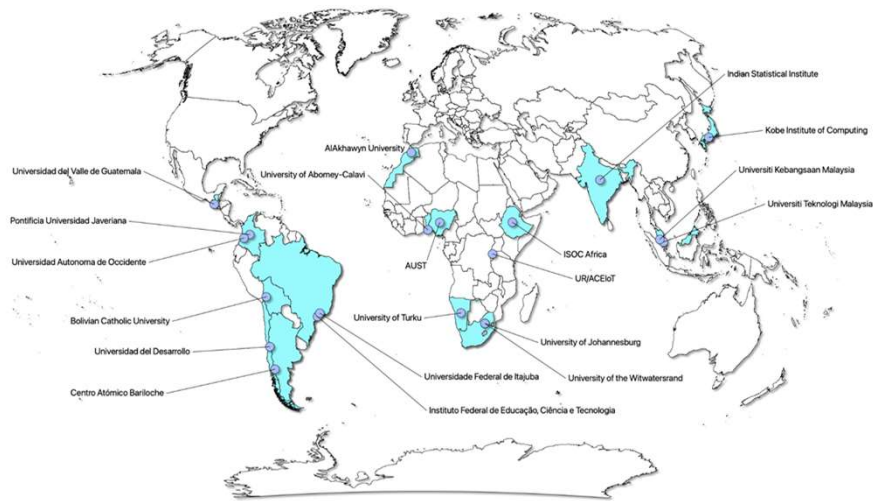
tinyMLedu has accomplished a lot
in its first year!

Our edX courses have been taken by over
60,000 students from 176 countries!



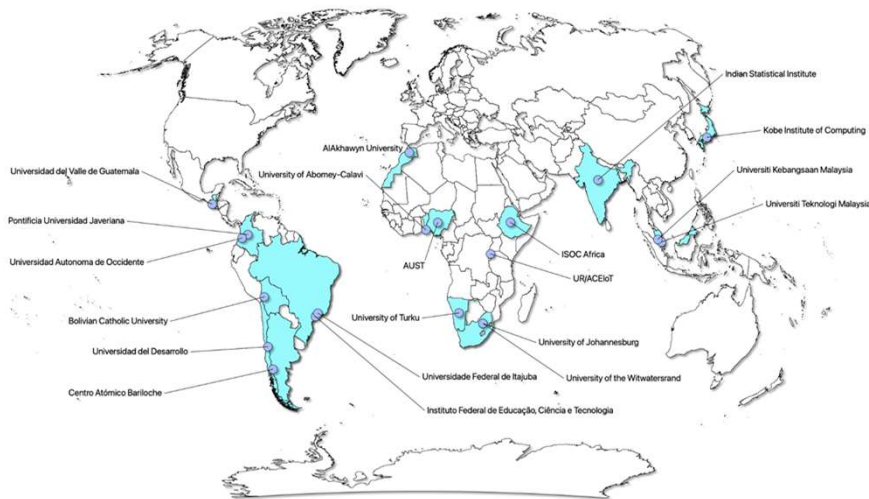
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We **launched** our 4D Academic Network
of 20 Global Universities



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**5-day
Workshop**

SciTinyML:
Scientific Use of
Machine Learning on
Low-Power Devices



18 - 22 October 2021
An ICTP Virtual Meeting
Trieste, Italy

Further information:
<http://indico.ictp.it/event/19622/>
smr3612@ictp.it

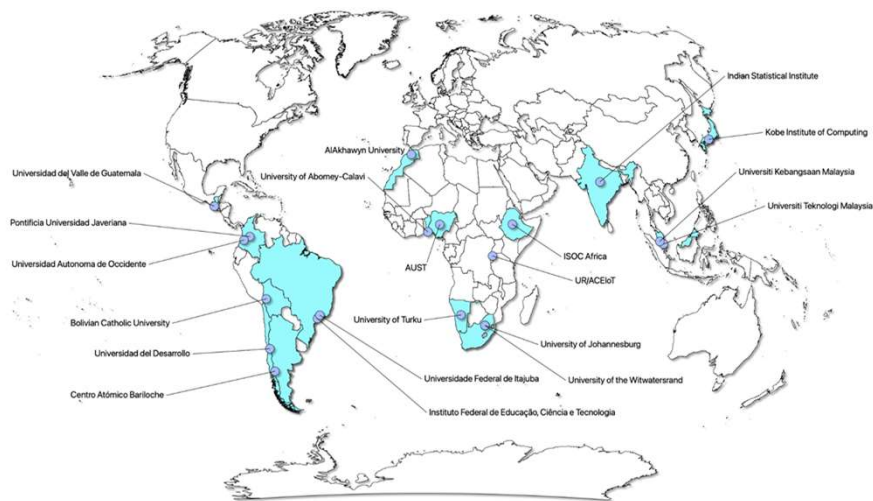
4 Seminars:

- “Why the Future of ML is Tiny and Bright”
- “Software Tools for TinyML”
- “Embedded ML Case Studies: Rwanda & Brazil”
- “Getting Started with the Wio Terminal and Edge Impulse”

Lots more planned for the new year!

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Hardware (finally) Coming Very Soon!



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in its first year!

**Two Open-Source Courses
Taught in Portuguese in Brazil** and
more international courses on the way!



tinyMLedu has accomplished a lot in its first year!

A **Zero to tinyML Hero** workshop for middle and high school students and teachers



Yá'át'ééh 🖐️

CRESTLEX 3.0

CREating Effective STEM Learning EXperiences

with Navajo Tech

Harvard

Waiting

Yá'át'ééh

	NOISE	UNKNOWN	YAA'EEH
241	0.02	0.06	0.92
240	0.07	0.03	0.90

Using machine learning to spot fake Native American jewelry

Logos: Google, Microsoft, Navajo Technical University

Two Open-Source Courses Taught in Portuguese in Brazil and more international courses on the way!



UNIFEI-UESTI01-TinyML-2021.2

Course Repository - TinyML - Machine Learning for Embedding Devices

2nd Semester (Spring)

 UNIFEI
Universidade Federal de Itajubá

Instituto de Engenharia de Sistemas e Tecnologias da Informação - IESTI - Campus de Itajubá

For the previous IESTI01 TinyML 2021.1 course Version, please go to:
<https://github.com/Mjroval/UNIFEI-UESTI01-T01-2021.1>

tinyMLedu has accomplished a lot
in its first year!

**And So
Much
More!**

BACKYARD  BRAINS



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<https://tinyMLedu.org>

TinyMLedu
The Tiny Machine Learning Open Education Initiative

[Home](#) [TinyML Courses](#) [Teach TinyML](#) [Working Groups](#) [Discourse](#) [Menu](#)

Welcome to the Tiny Machine Learning Open Education Initiative (TinyMLedu)

We are an international group of academics and industry professionals working to improve global access to educational materials for the cutting-edge field of TinyML. TinyML brings the transformative power of machine learning (ML) to the performance- and power-constrained domain of embedded systems. Successful deployment in this field requires knowledge of applications, algorithms, hardware, and software. TinyMLedu is hosted by the Harvard John A. Paulson School of Engineering and Applied Sciences in collaboration with the tinyML Foundation.

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