Deploying TinyML

Table of Contents

[Objectives 3](#_Toc109079691)

[Prerequisites 3](#_Toc109079692)

[Prerequisites 3](#_Toc109079693)

[Learning Objectives/Focus: 3](#_Toc109079694)

# Objectives

The goal of this course is to teach learners how to engineer end-to-end tinyML applications using TensorFlow Micro. We teach learners how to program in TF Micro, and use it to deploy real-world applications.

# Prerequisites

## Prerequisites

* Applications of TinyML (Course 2)
* Basic programming in C++
* TinyML [course kit](https://store.arduino.cc/usa/tiny-machine-learning-kit)
  + *March 2022 update: Due to the ongoing COVID-19 crisis and the resulting semiconductor shortage, the microcontroller used by the kit (and therefore the kit) is out of stock globally. We’ve been working with Arduino on this and are expecting kits to be in stock in the coming months. We will continue to update this page and email learners with any updates when we receive them.* ***In the meantime, you are still able to complete the course without the kit.****While you will not be able to complete the hands-on exercises that are described in the course materials, you can still complete the course assessments, which are focused on your conceptual understanding of the course materials based on the readings, videos, and other instructional content in the course.  If you have any additional questions or concerns, please feel free to reach out to edX support via email at* [*support@edx.org*](mailto:support@edx.org)*.*

## Learning Objectives/Focus:

* Discover the rich landscape of embedded ML applications
* Understand how to design and deploy end-to-end TinyML applications
* Learn to deploy TinyML models using TFLite Micro on embedded systems