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year = 2020,

title = {TensorFlow Lite Micro: Embedded Machine Learning on TinyML Systems},

keywords = {Machine Learning, Neural Network, Embedded devices, Keyword Spotting, Microcontrollers, Arduino},

arXiv = 2010.08678v2

This paper introduces TensorFlow Lite Micro (TF Micro), an open-source ML inference framework for running deep-learning models on embedded systems. Here the framework adopts a unique interpreter-based approach that provides flexibility while overcoming efficiency challenges. This paper explains the design decisions behind TF Micro and describes its implementation details.