

The Move Towards the Edge

With the astounding success of machine learning in general, many researchers and practitioners have turned their attention to the edge.





- Plug directly into TVM as a backend
- Use the compiler to emit code for the device
- Gain access to TVM models and optimization



Host Model Conv2D MaxPool MatMul

µTVM: Deep Learning on Bare-Metal Devices Logan Weber, Pratyush Patel, and Tianqi Chen



Bare-metal devices are commonly found on the edge, because they are cheap and energyefficient.







Programming these devices is extremely difficult due to:

- Resource constraints
- Lack of compute power
- Lack of on-device memory management
- Restricted language and runtime support
- Tedious debugging

