

Problem  
definition

Database  
selection  
(public domain)

Model  
selection

Model  
training code

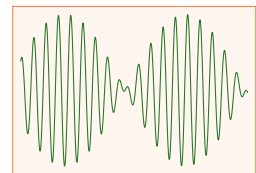
Derive "Tiny"  
version:  
Quantization

Embedded  
implementation

Benchmarking  
harness  
integration

Deploy on  
device

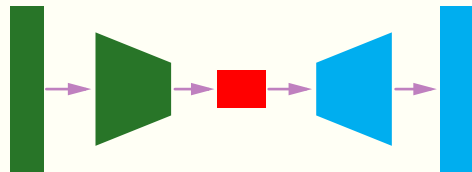
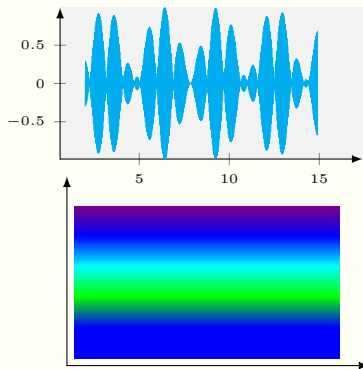
Example  
benchmark  
run



Anomalous Sound  
Detection System

Normal

Anomaly



FP32

INT8

**ARM**  
mbed OS

Training Code

Problem	AD
Model	FC-AE
Size	270 Kpar
Latency	10.4 ms/inf.
Accuracy	.86 AUC
Energy	516 $\mu$ J/inf.