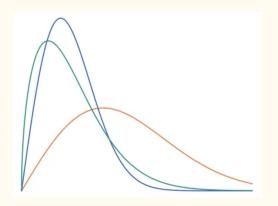
Practical ML Tutorial: Part II

SEEMAPLD2023, George Williams

Agenda

Part I

- AI Trends
- ML Basics
- Survival Analysis
- Hands-On Programming



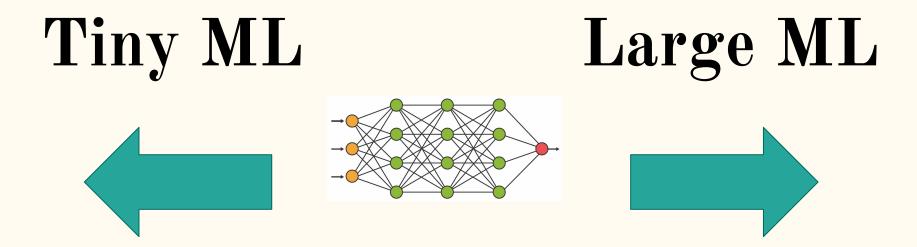
Part II

- AI Hardware
- PyTorch Basics
- Computer Vision
- Hands-On Programming

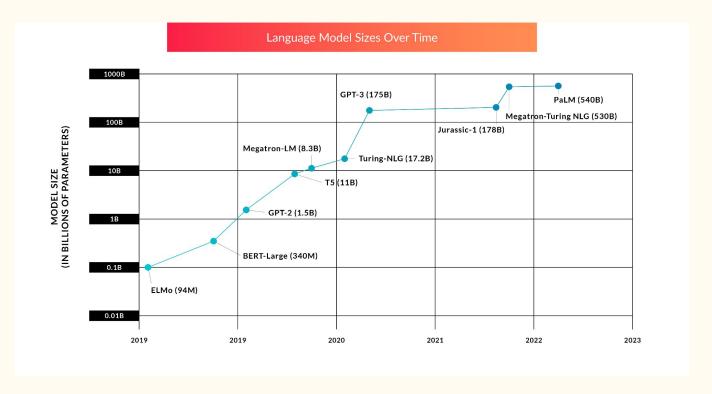


AI & ML Hardware

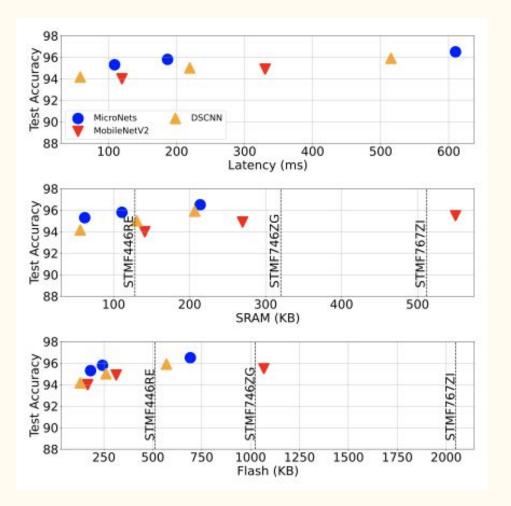
Extreme Industry Divergence...



Large ML: Large Language Models



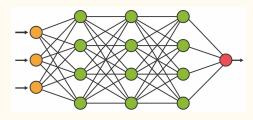
Tiny ML: AI At The Edge



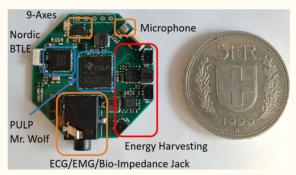
https://community.arm.com/arm-research/b/article s/posts/neural-network-architectures-for-deployingtinyml-applications-on-commodity-microcontrollers

Extreme Hardware Divergence...

Tiny ML



Large ML



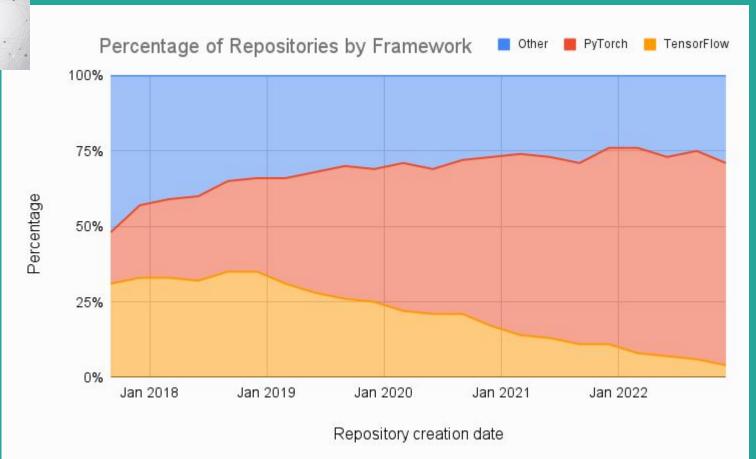
InfiniWolf Deep Learning on MCU



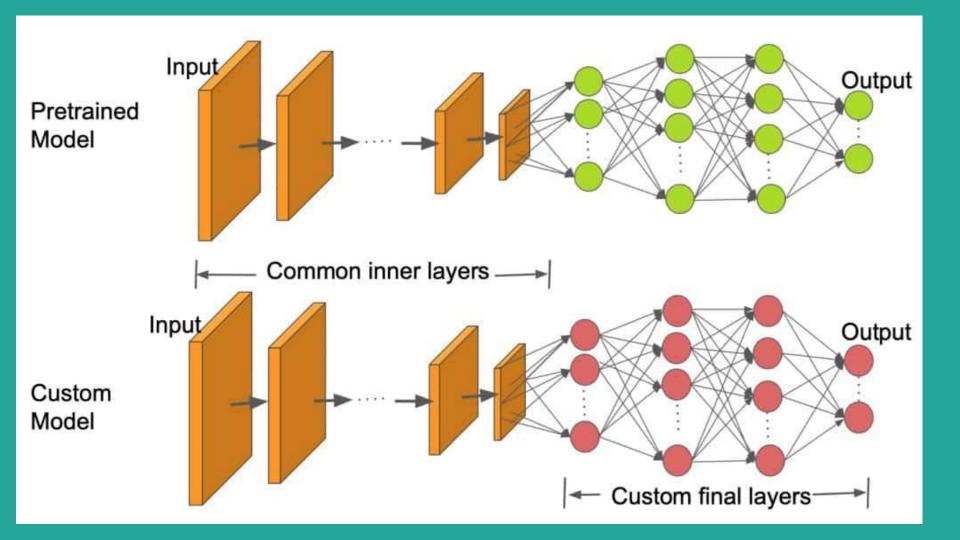
Cerebras Wafer-Scale for Deep Learning

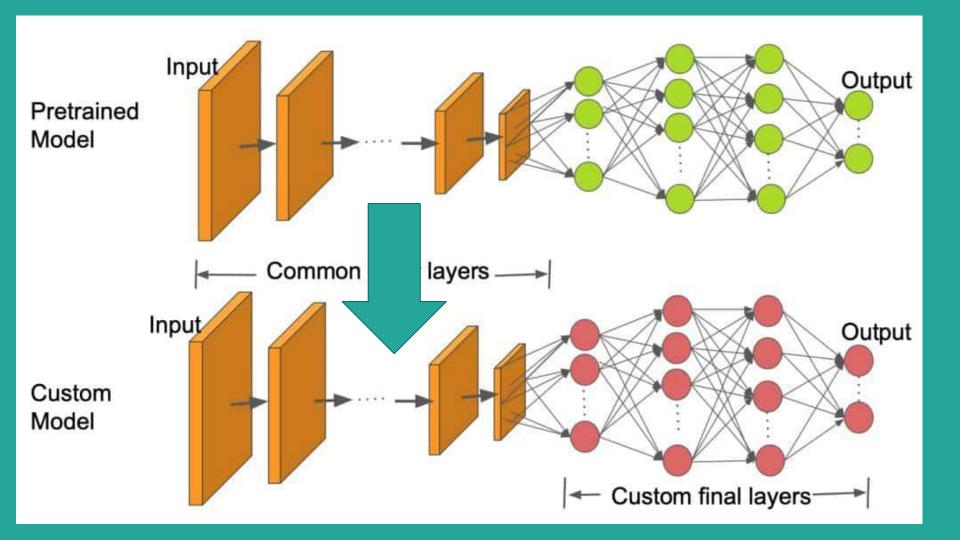
Deep Learning Frameworks





Transfer Learning





Let's Continue Coding!