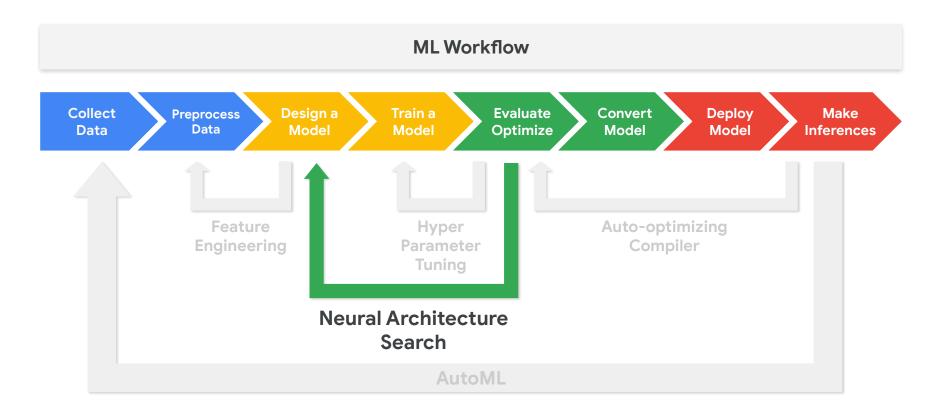
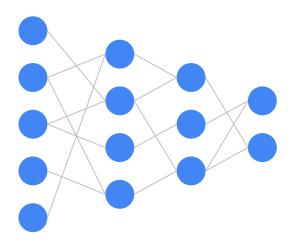
Overview of Neural Architecture Search

What is Neural Architecture Search?

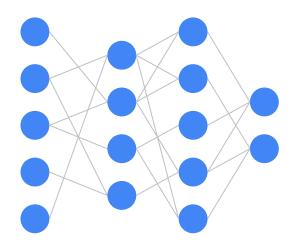


Model **Design** Impacts Accuracy



Accuracy: 84%

Model **Design** Impacts Accuracy



Accuracy: 90%

TinyML?



Even less memory

Even less compute power

Also, only focused on inference

model constraints on **memory**, and **latency**

Multi Objective Search

Vanilla NAS

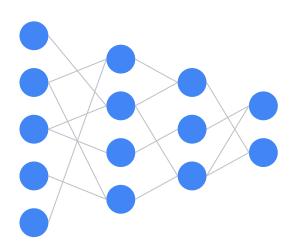
Multi-Objective

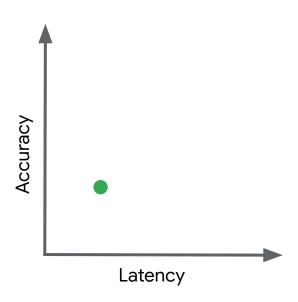




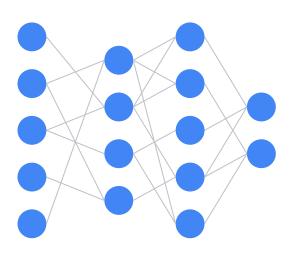


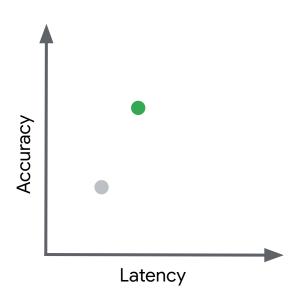
Design impacts more than accuracy



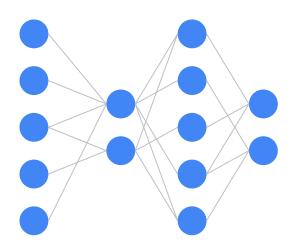


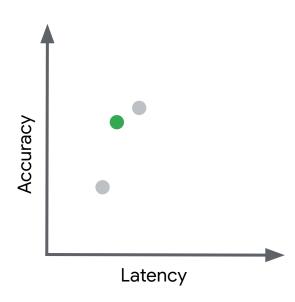
Design impacts more than accuracy



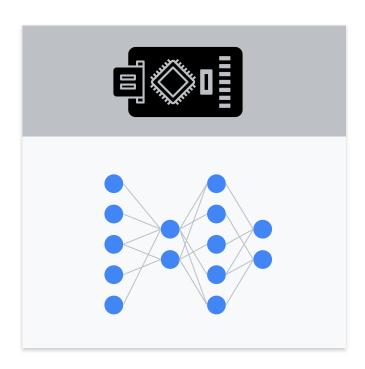


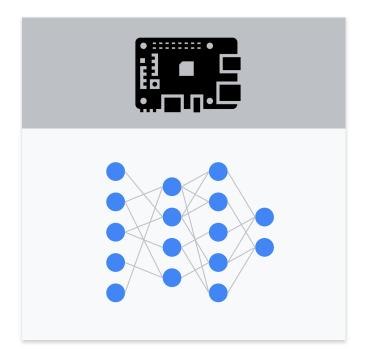
Design impacts more than accuracy



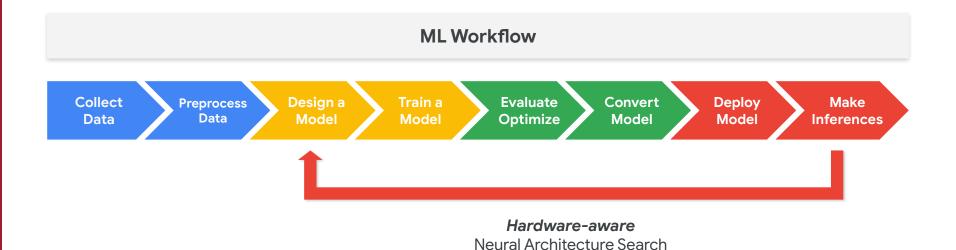


Tailored for **Hardware**



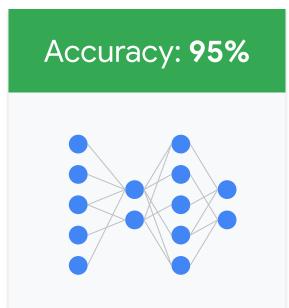


Tailored for **Hardware**



An **Applied** Perspective





Neural Architecture Search: Stages

