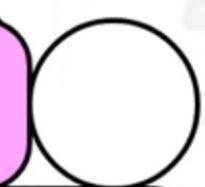
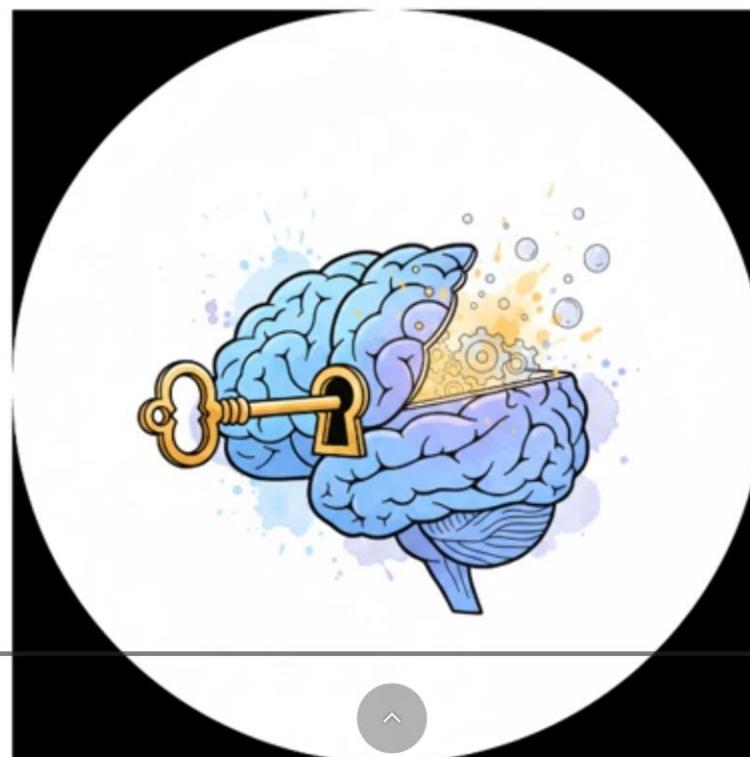
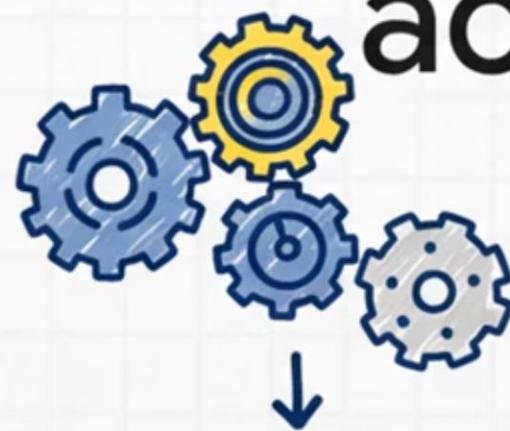


www.youtube.com – To exit full screen, press Esc

Unlocking AI with TensorFlow





Training workflow

How does an AI idea
actually get into your
phone?



devices





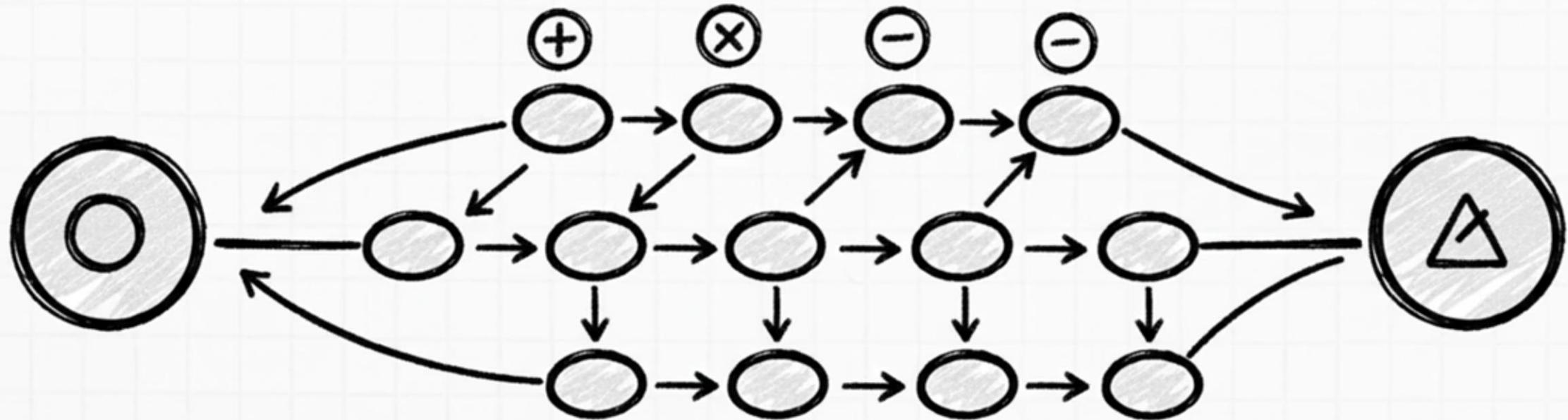
The ML Powerhouse

The industry standard

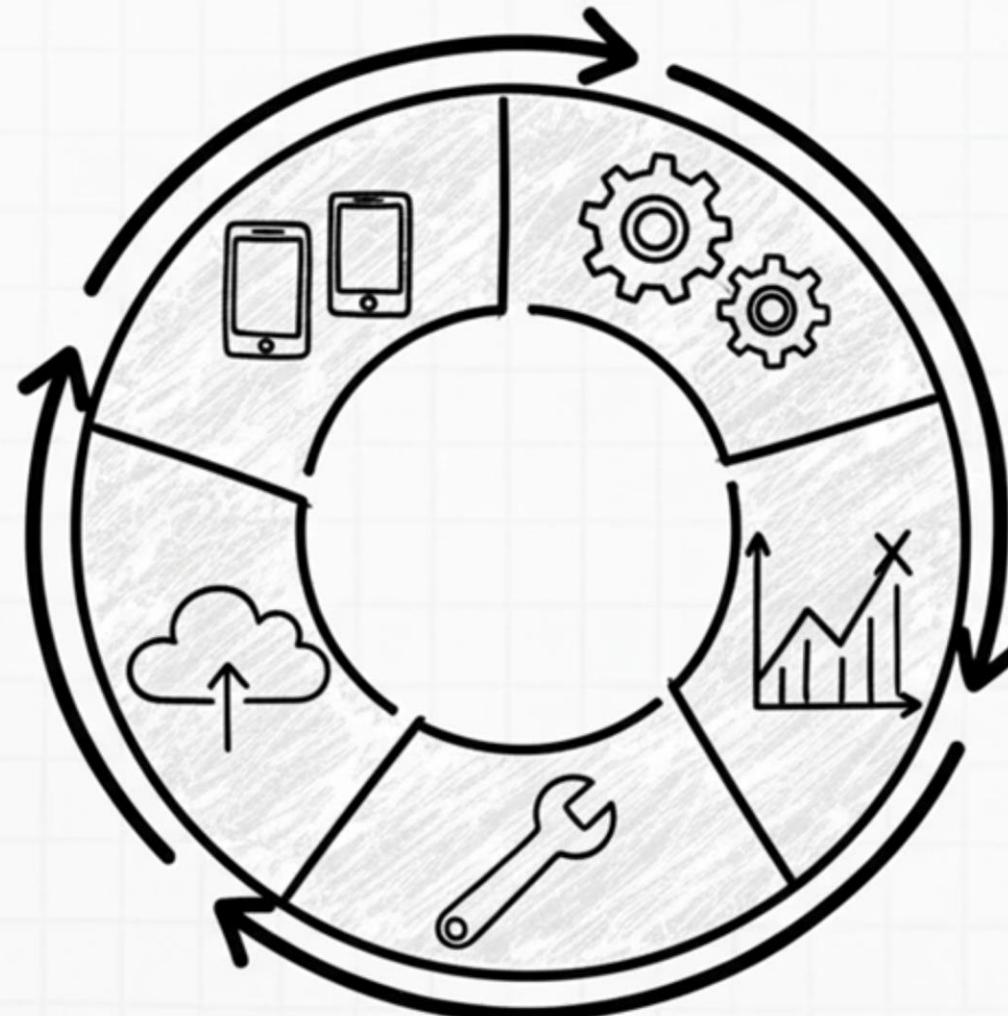
TensorFlow

An open-source library by Google to build, train, and deploy machine learning models at scale.

Computational Graph

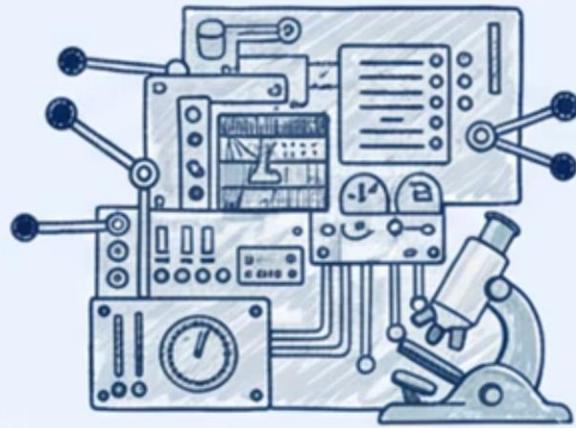


The Full ML Lifecycle

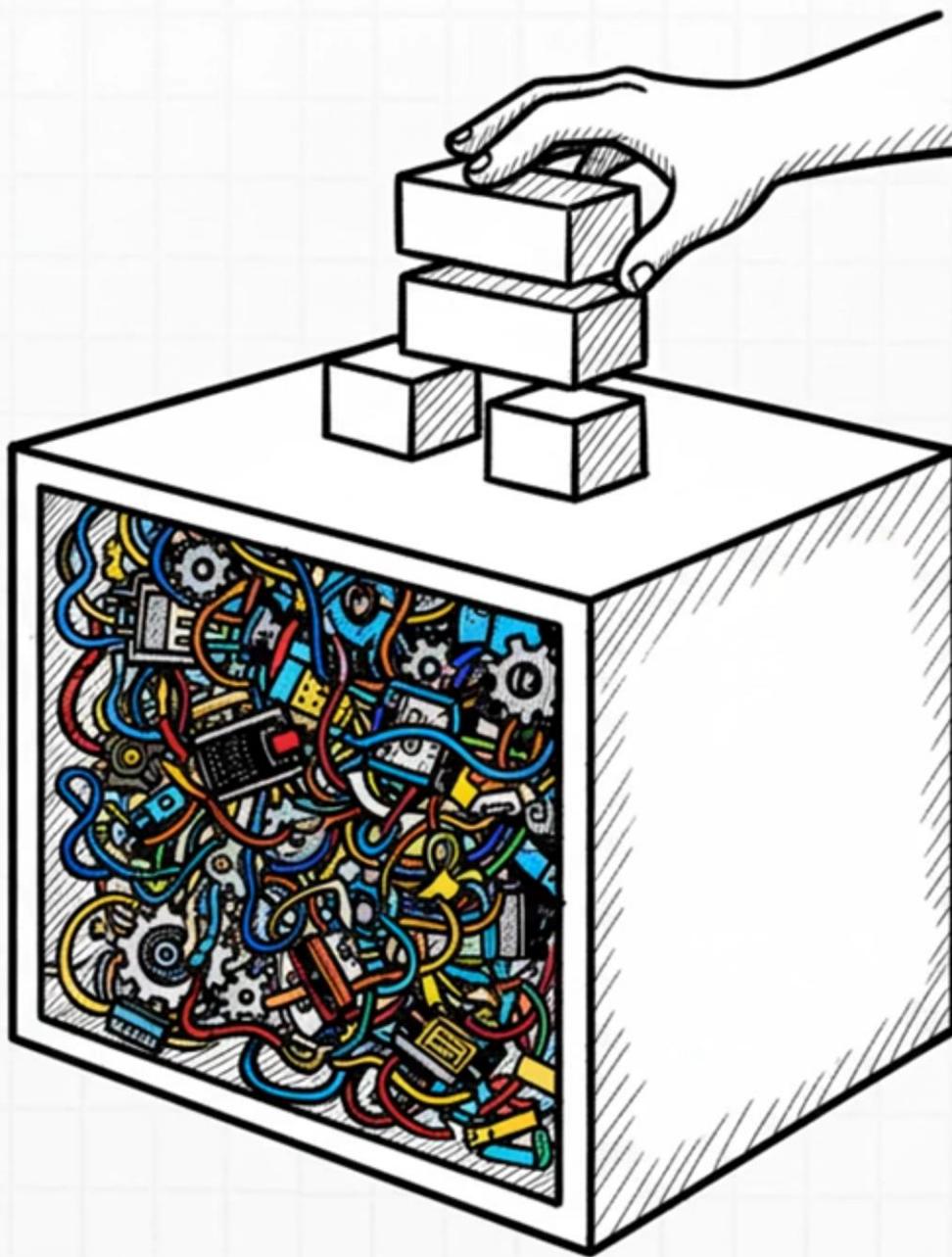




Keras (High-Level API): Best for beginners & prototyping. Focus on user-friendliness and speed.



TF Core (Low-Level API): Best for experts & researchers. Focus on fine-grained control & performance.





1. Define Layers

Stack modular layers together like building blocks.

2. Compile Model

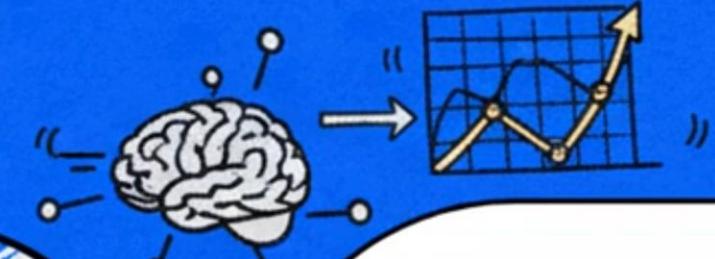
Configure the model for training.

3. Train Model

Call the `.fit()` command on your data and watch it learn.

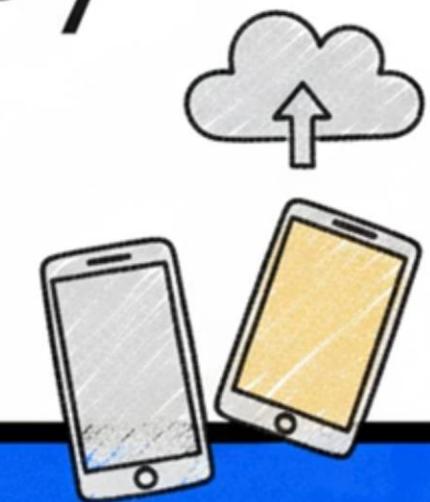
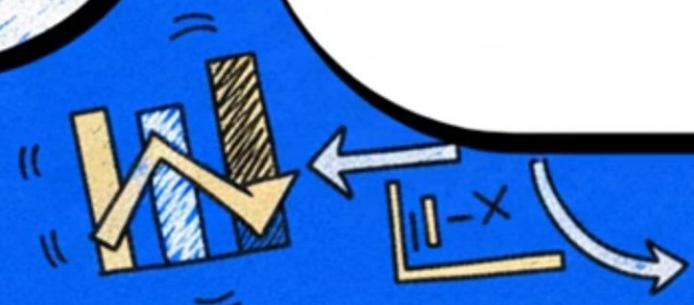


3



Visualize & Deploy

Bring your model to life



Supercharged Workflow

1. Build

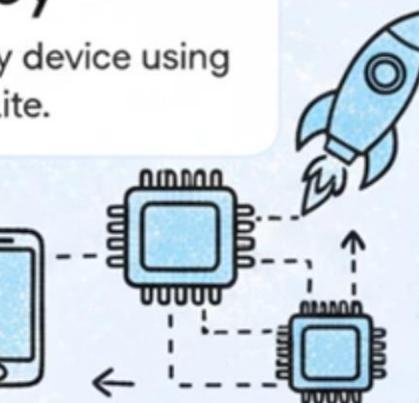
Quickly build your model with the simple Keras API.

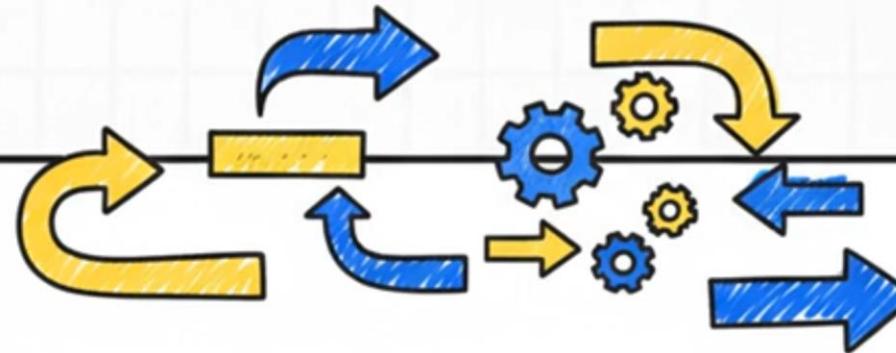
2. Visualize

Monitor training in real time with TensorBoard.

3. Deploy

Deploy to any device using TensorFlow Lite.

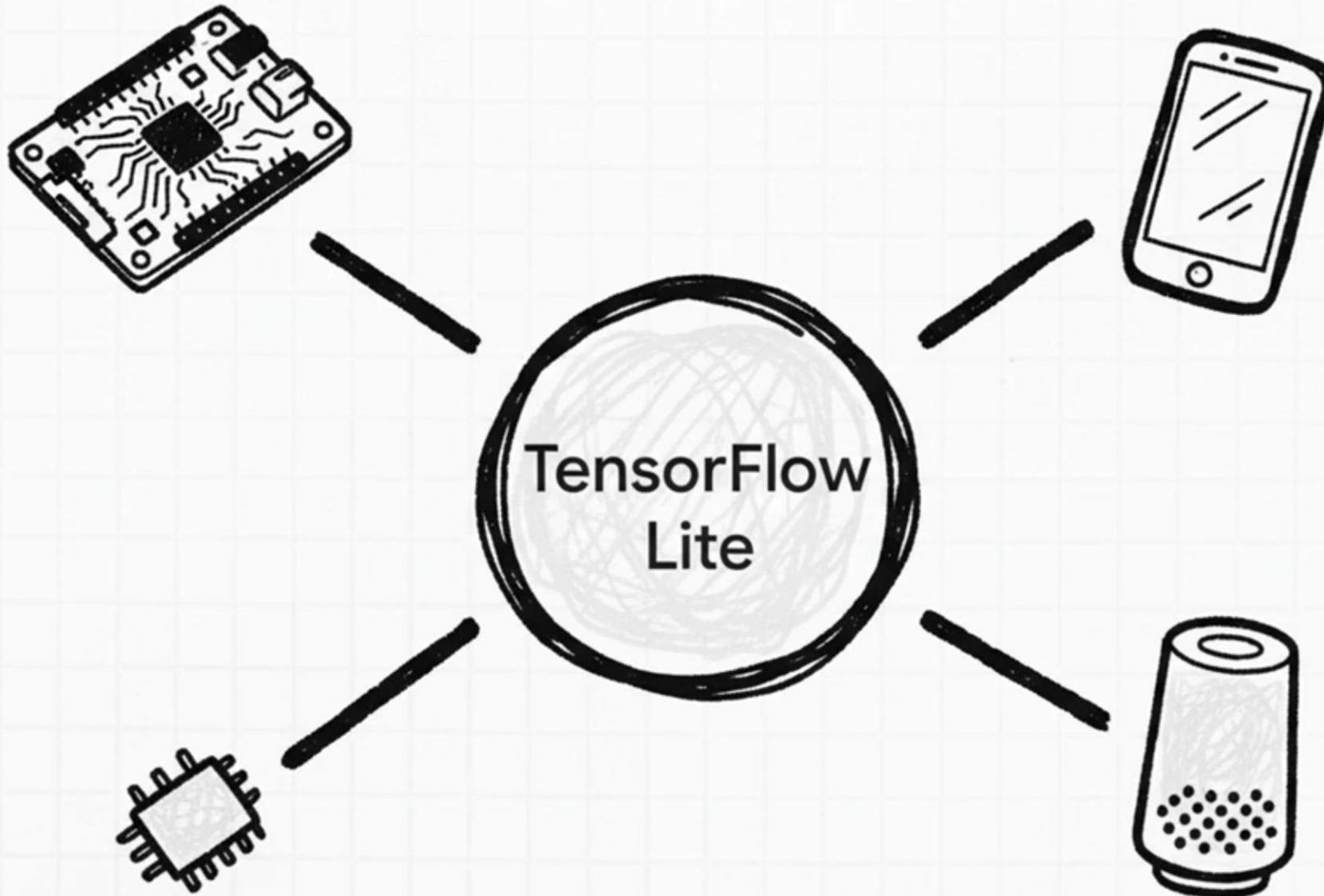




“See your model's **mind**
at work with
TensorBoard.



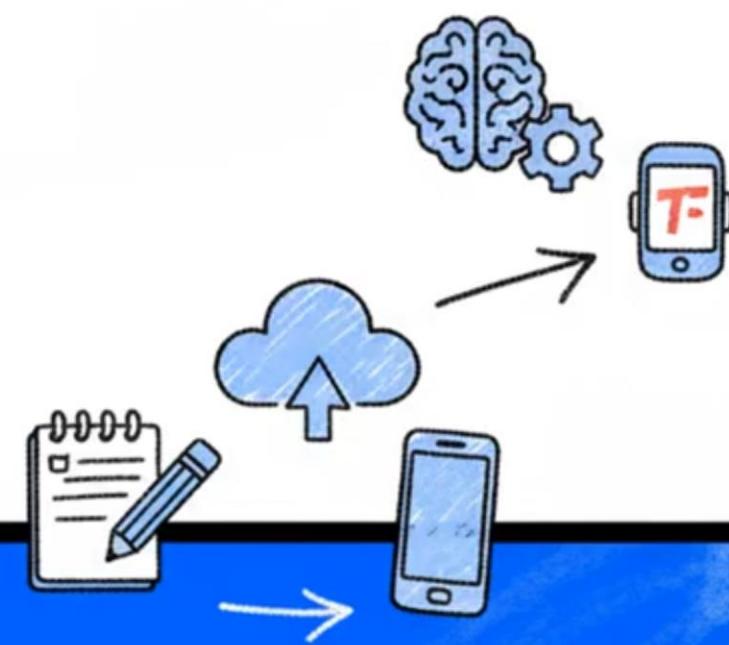




4

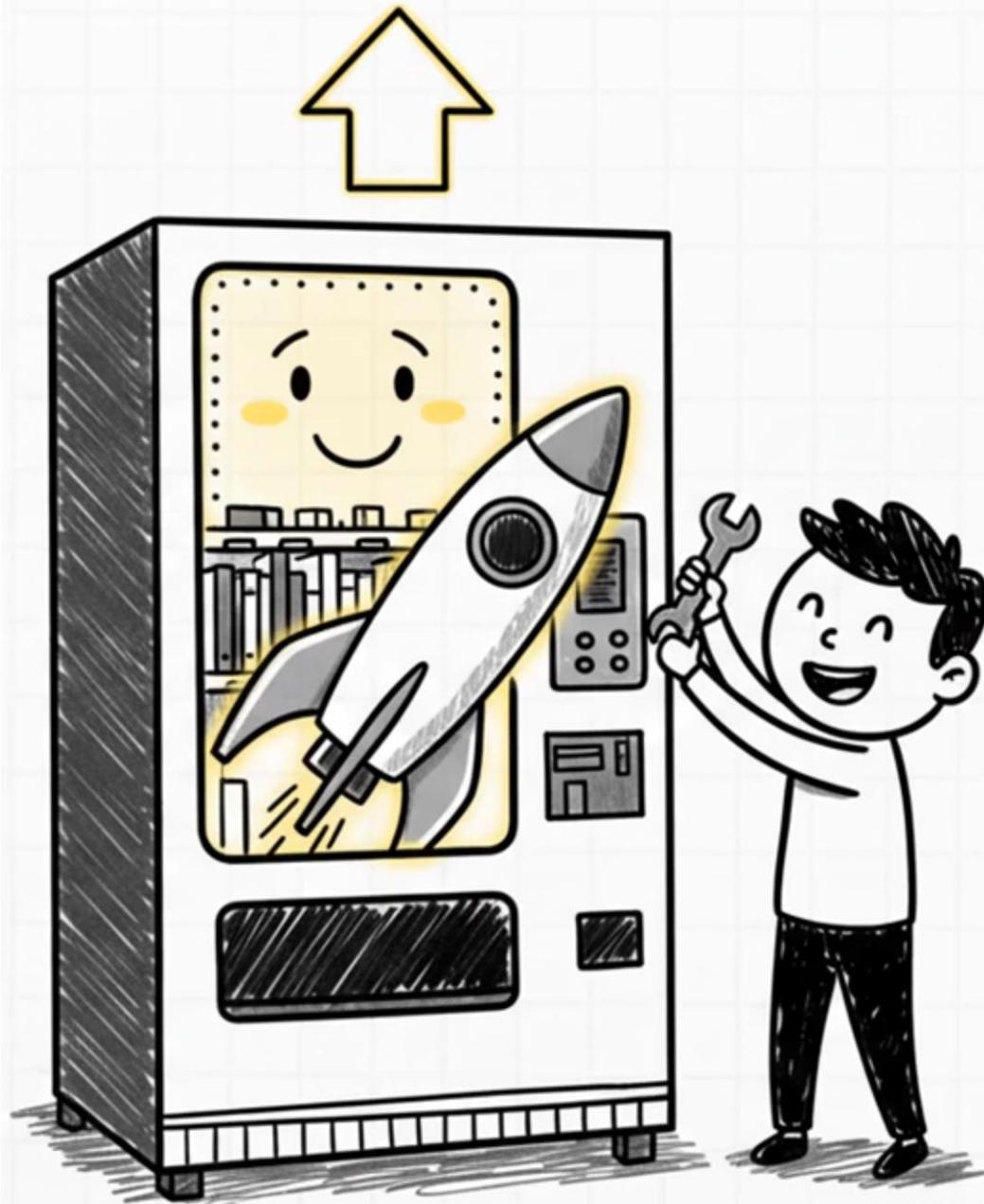
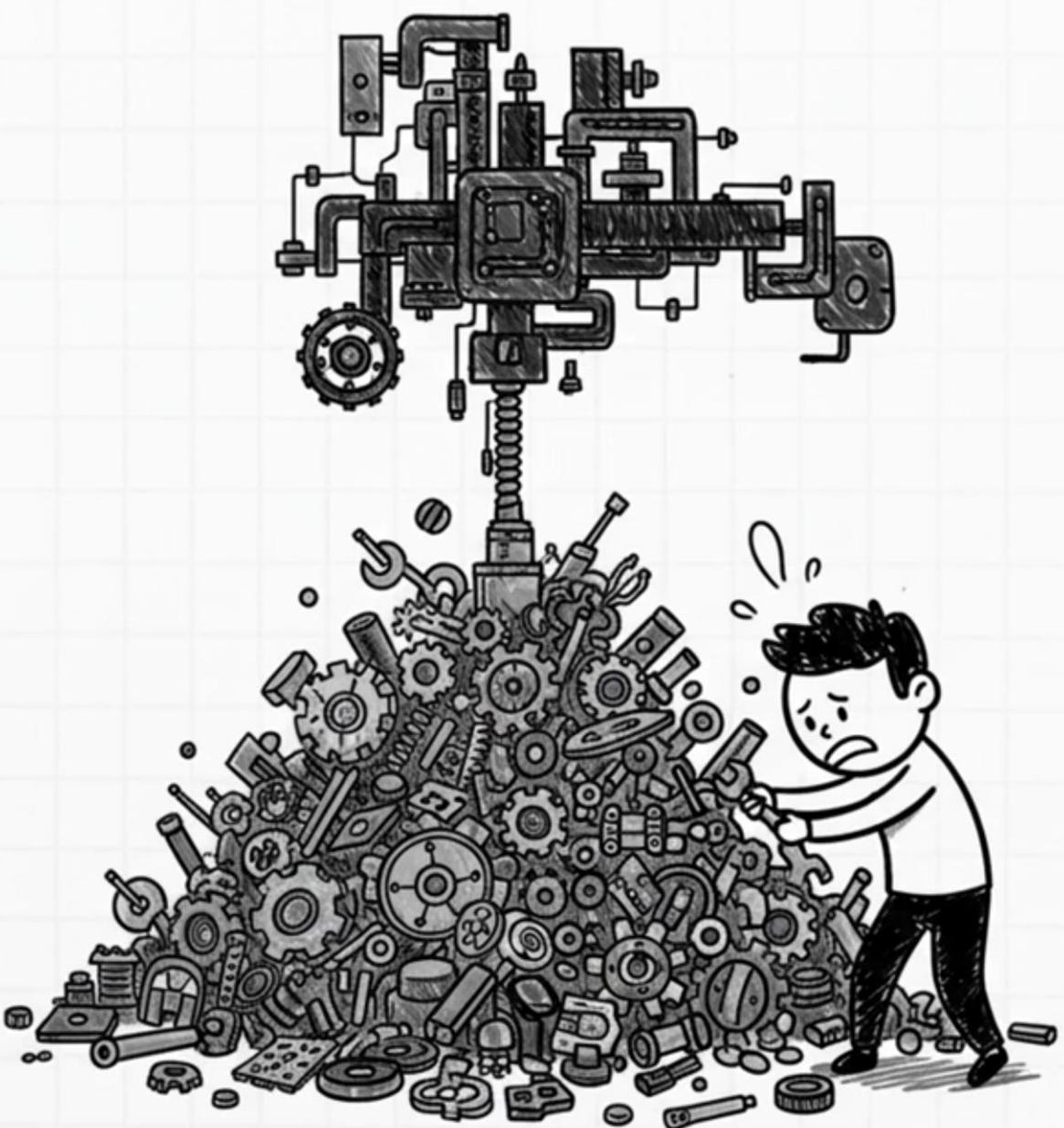
Prototype to Production

Powering the real world



Who Uses TensorFlow?







You've seen the toolkit.
What will **you build**
first?