



Vizle





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What deep learning is good for



- **Problems with long lists of rules**—when the traditional approach fails, machine learning/deep learning may help.
- **Continually changing environments**—deep learning can adapt (“learn”) to new scenarios.

Vizle

Neural Networks



(before data gets used with a neural network, it needs to be turned into numbers)

Daniel Bourke @mrdbourke · Nov 1
 "How do I learn #machinelearning?"

What you want to hear:

1. Learn Python
2. Learn Math/Stats/Probability
3. Learn software engineering
4. Build

What you need to do:

1. Google it
2. Go down the rabbit hole
3. Resurface in 6-9 months and reassess

See you on the other side.

[[116, 78, 15],
 [117, 43, 96],
 [125, 87, 23],
 ...]



Inputs

Numerical encoding



Types of Learning



Supervised Learning



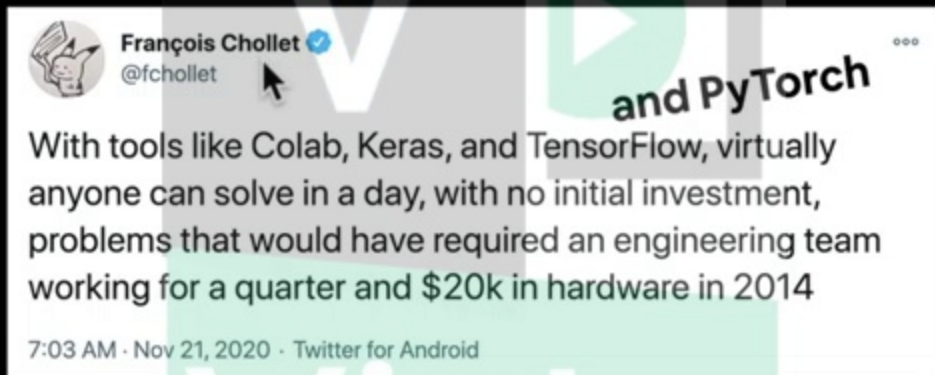
Unsupervised &
Self-supervised
Learning



Transfer
Learning

We'll be writing code to do these,
but the style of code can be adopted across learning paradigms.

Why PyTorch?



Source: [@fchollet Twitter](#)



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