



Supervised Learning

DATA TYPE

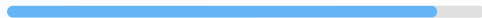
Labeled data (X, y)

GOAL

Predict y from X

- ✓ Requires labeled data
- ✓ High accuracy
- ✓ Expensive labeling
- ✓ Domain expertise needed

Labeling Cost



Unsupervised Learning

DATA TYPE

Only X (unlabeled)

GOAL

Find structure in X

- ✓ No labels needed
- ✓ Discover patterns
- ✓ Highly scalable
- ✓ Cost-effective

Labeling Cost



Semi-supervised Learning

DATA TYPE

Small labeled + Large unlabeled

GOAL

Leverage both data types

- ✓ Best of both worlds
- ✓ Balanced approach
- ✓ Practical solution
- ✓ Often best results

Labeling Cost

