

Unlabelled data
 $\mathcal{D} = \{(x_i)\} \subset \mathbb{X}$
 x_i data sample



Un-supervised
Machine Learning



Model, e.g.
cluster analysis

Labeled data
 $\mathcal{D} = \{(x_i, y_i)\} \subset \mathbb{X} \times \mathbb{Y}$
 x_i data sample
 y_i label



Supervised
Machine Learning



Model
 $y = f(x; w)$



Performance metric, hypotheses