

# Google ML Crash Course

## FRAMING

Supervised ML: learn to create models to combine inputs to make predictions on never seen data

Label is value we predict

Features is how we represent (input vars)

$$\{x_1, \dots, x_n\}$$

Examples are instances of data

Labeled  $(\vec{x}, \vec{y})$

Unlabeled  $(\vec{x}, ?)$

e.g. (email, {spam, not spam})

Models map examples to predicted labels.

They are trained from labeled examples

Then they infer: apply trained model to unlabeled examples to predict labels

Regression vs. Classification models

↓  
predict continuous values

↓  
predict discrete values