

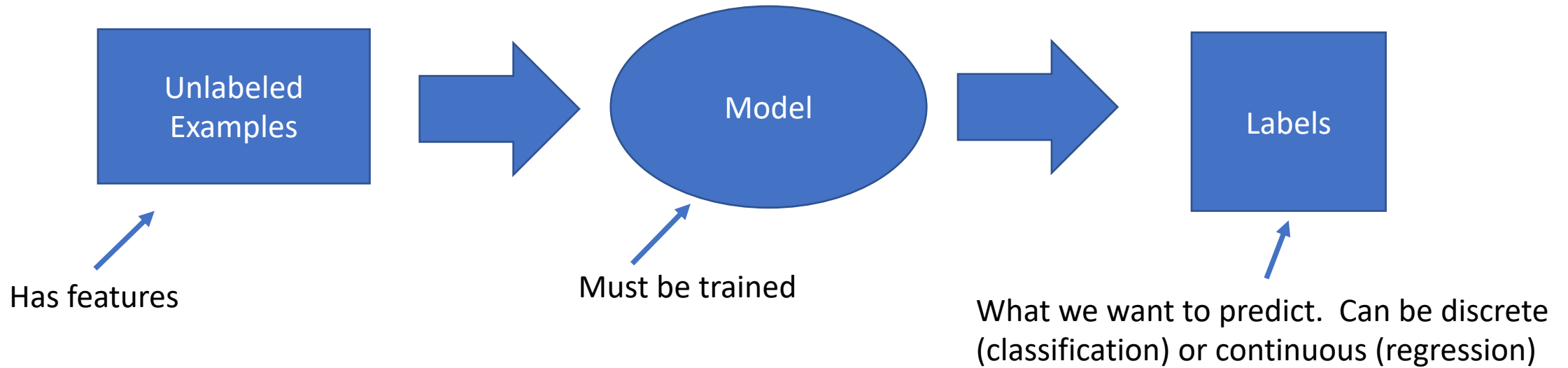
# Introduction to Machine Learning

Computer Science Department

MCLA

Mark Cohen, Ph.D.

# Supervised Learning

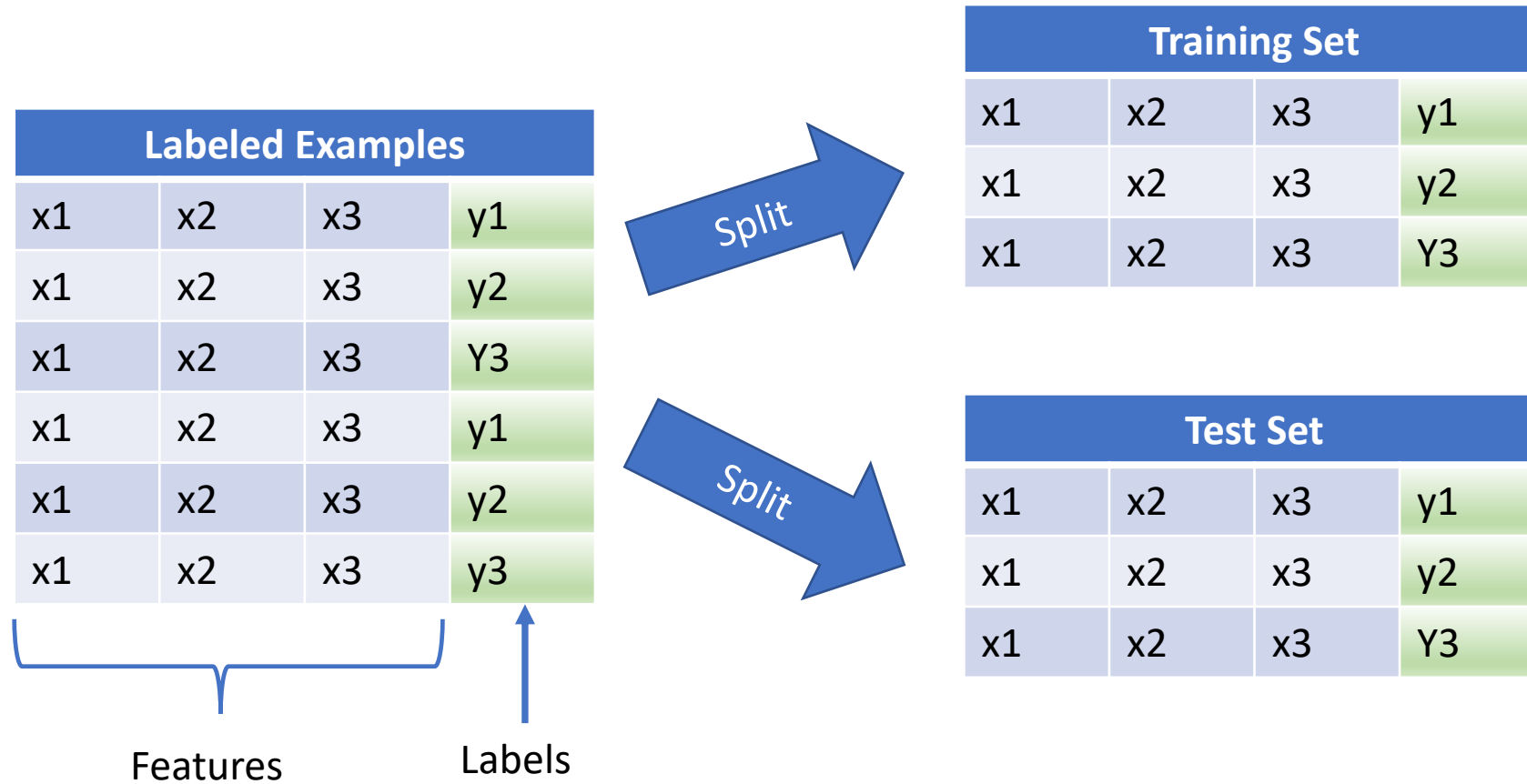


For Example:

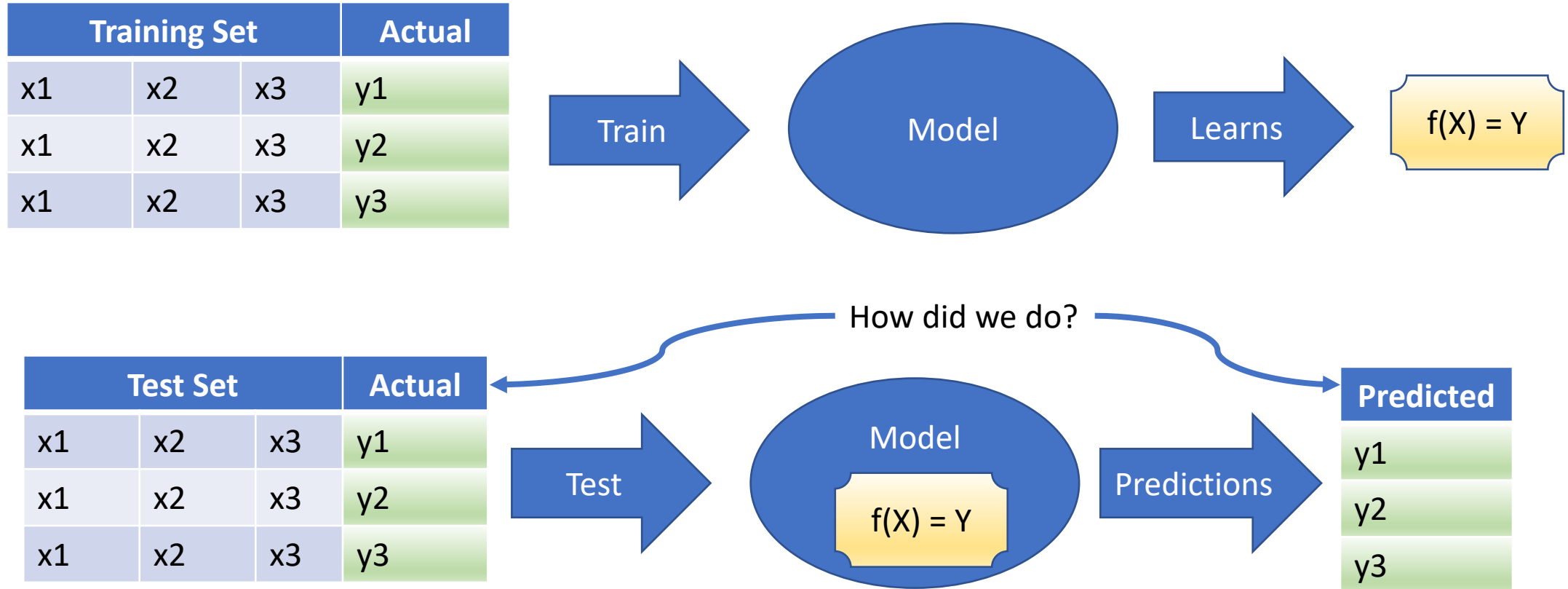
Email (Subject, From, To, Text) Classification Is Spam (Discrete)

Population (% That Smoke, % That Bike To Work) Regression % Heart Disease (Continuous)

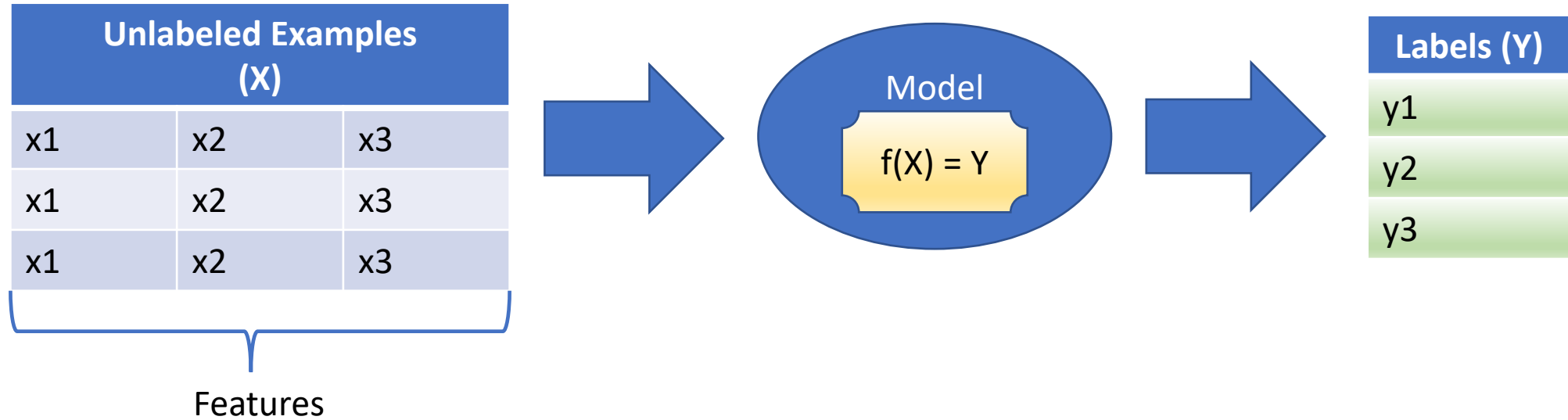
# Training and Testing



# Training and Testing



# Predicting

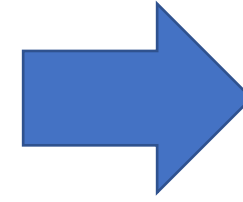
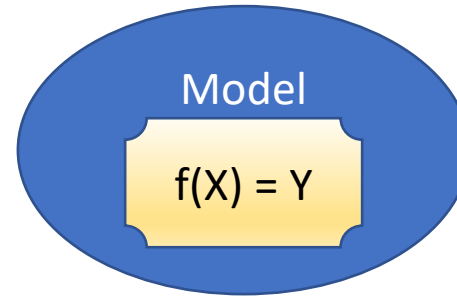
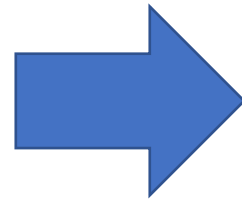


# Examples

## Regression

% Smoke	% Bike to Work
12	76
45	23

Features



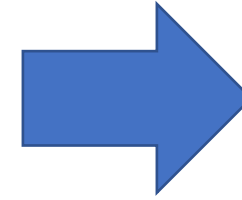
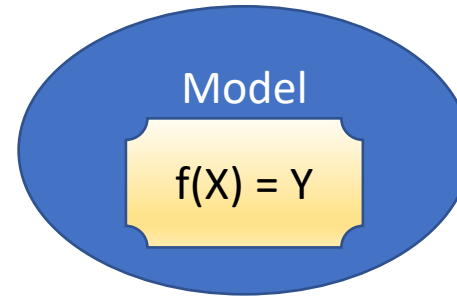
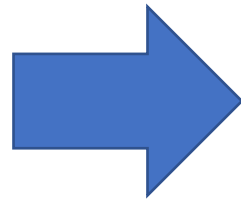
% Heart Disease
14
36

Labels

## Classification

Features

Genre	Year
R&B	1987
Rock	1981
R&B	1988
R&B	2010



I-Like
True
False
True
False

Labels