

Predictive Analytics, Classification, and Decision Trees

Building classification and decision trees



Agenda

- Introduction to predictive analytics
- Introduction to classification
- Decision tree classifier
- Hands-on Lab: Building a decision tree classifier using R

Introduction to Predictive Analytics

Family and Personal Life

- Location
 - Microsoft and Nokia predict future location based on cellular phone and location data
- Life Events
 - Target predicts customer pregnancy
- Divorce and infidelity
 - University and clinical researchers can predict this as well!

Friendship and Dating

- Friendship and connection
 - Facebook and LinkedIn predict your personal connections
- Love
 - Every dating site tries to predict potential matches
 - "OkCupid" tracks which message content is most likely to elicit a response

Telcos, Retail, and More

- FedEx
 - Predicts defection to a competitor with 65-90% accuracy
- Amazon
 - 35% of sales come from product recommendations