Data Mining with Weka

Department of Computer Science
University of Waikato
New Zealand

weka.waikato.ac.nz

What is the course about?

- Data Mining

  – Using data to make predictions

- *Weka*

  – Open source software tool

  – Developed at *The University of Waikato*
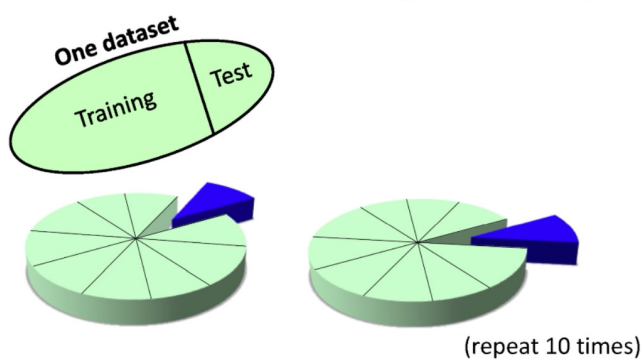

weka.waikato.ac.nz

What is in the course?

- Video lessons

    – Captions & Slides

- Practical exercises with *Weka*

- Readings from *Data Mining* book

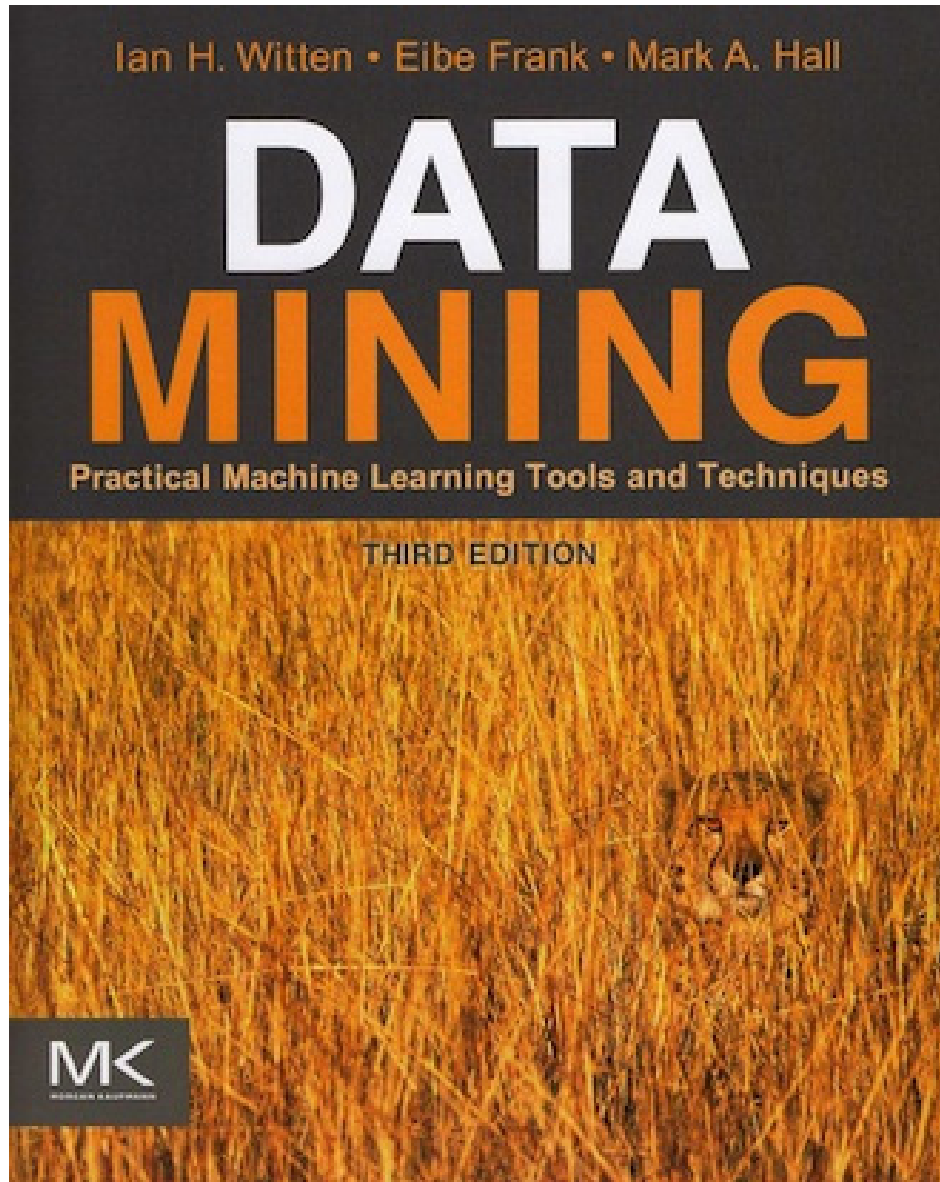- Assessment

    – Mid-term, final test → Completion certificate

Lesson 2.5: Cross-validation

❖ Repeated holdout
(in Lesson 2.1, hold out 10% for testing, repeat 10 times)

One dataset

Training | Test

(repeat 10 times)

Witten, I.H., Frank, E. & Hall, M.A. (2011) *Data Mining: Practical Machine Learning Tools and Techniques*, Third Edition. Morgan Kaufmann.

Extracts from *Data Mining* will be available within the course

weka.waikato.ac.nz

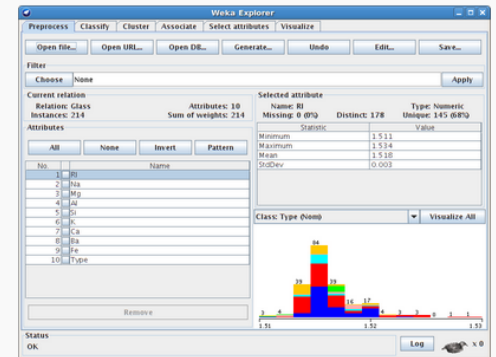# *What will I need for the course?*

- Google Account

- Computer to install *Weka*
  - Windows, Mac or Linux

- 3-5 hours/week for 5 weeks

- High school mathematics

- No programming experience needed

weka.waikato.ac.nz