



Advanced Data Mining with Weka

Department of Computer Science
University of Waikato
New Zealand

What's the course about?

- ❖ Data Mining
 - Using **your** data to make predictions
- ❖ *Weka*
 - Open source software tool
 - Developed at *The University of Waikato*
- ❖ Sequel to *Data Mining with Weka*
and *More Data Mining with Weka*



The Waikato data mining team



Ian Witten
(Class 1)



Geoff Holmes
(Lesson 1.6)



Albert Bifet
(Class 2)



Bernhard Pfahringer
(Lesson 2.4)



Tony Smith
(Lesson 2.6)



Eibe Frank
(Class 3)



Pamela Douglas
(Lesson 3.6)



Mark Hall
(Class 4)



Mike Mayo
(Lesson 4.6)



Peter Reutemann
(Class 5)

What will I learn?

- ❖ Mining time series data
- ❖ Evolving data streams
- ❖ Big data: *Moa*
- ❖ Big data: cluster computing
- ❖ Accessing (e.g.) *R* from *Weka*
- ❖ *Python* scripting from Explorer
- ❖ Invoking *Weka* API from *Python*



Data miner



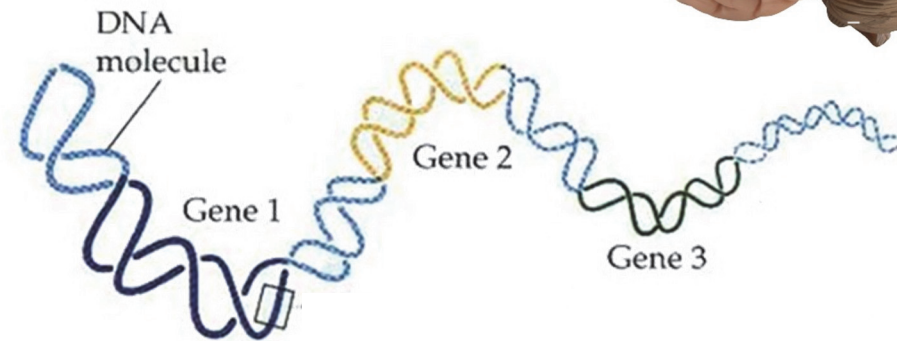
Weka



Moa

Data mining applications

- ❖ Soil sample analysis
- ❖ Functional MRI data
- ❖ Bioinformatics application
- ❖ 2D image processing
- ❖ Analyzing Twitter feeds



What will I need?

- ❖ for experienced *Weka* users
 - e.g. have done previous 2 courses
- ❖ computer to install *Weka* (and *Moa*)
- ❖ internet, Google account
- ❖ a few hours/week for 5 weeks
 - activities are more demanding than previous MOOC
- ❖ no mathematics or programming experience needed



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