WEKA Software

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What is WEKA?

WEKA(Waikato Environment for knowledge Analysis)

- It is a popular suit of machine learning software written in java, developed at the university of waikato, new Zealand.
- Weka is free software available under the GNU(general public license.

Download and Install WEKA

- Weka's Document:
  https://waikato.github.io/weka-wiki/documentation/
- Installation for Mac OS:
  https://sourceforge.net/projects/weka/files/weka-3-8/3.8.6/weka-3-8-6-azul-zulu-osx.dmg/download?use_mirror=onboardcloud
- Installation for Window:
  https://sourceforge.net/projects/weka/files/weka-3-8/3.8.6/weka-3-8-6-azul-zulu-windows.exe/download?use_mirror=onboardcloud
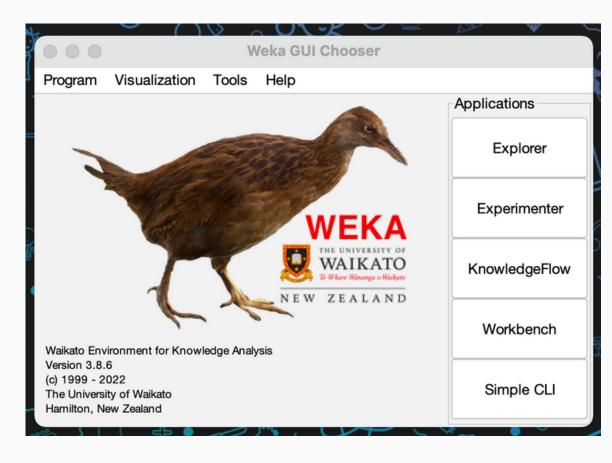
The workbench for machine learning

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Why we use WEKA?

✓ Platform Independent

✓ Flexibility for Scripting Experiments

✓ Data Preprocessing Tools

✓ Open Source and Free

✓ Different Machine Learning Algorithm for Data Mining

✓ 3 Graphical User Interface

WEKA
Main Interface

Explorer

Graphical interface to perform the data mining tasks on raw data

Knowledge Flow

Explorer with drag and drop functionality and supports incremental learning from result

Experimenter

Allows users to execute different experimental variations on data sets

Workbench

Combines all GUI interfaces into one

Simple CLI

Command Line interface

Collection Tools in WEKA

WEKA is a collection of tools for:

- Data pre-processing
- Classification
- Clustering
- Association
- Select Atrribute
- Visualization

Loading Data & File Format

◆ **Loading Data**

This workbench allows data which can be loaded from:
- Local File System
- Web
- Database

A large number of file formats for the data such as:
- arff
- arff.gz
- bsi
- csv
- dat
- data
- json
- jason.gz
- libsvm
- m
- names
- xrff/xrff.gz

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Thanks You!