Dataset description

March 2021

1 Abalone age Prediction Dataset

Choose the training dataset, with the same number of the two final digits of your student number. For instance, if your student number is 123456, choose the `abalone_train_06.csv`, or if it is 654321, choose the training set `abalone_train_21.csv`

Predicting the age of abalone from physical measurements. The age of abalone is determined by cutting the shell through the cone, staining it, and counting the number of rings through a microscope, a time-consuming task. Other measurements, which are easier to obtain, are used to predict the age.

Attribute Information

The number of rings is the value to predict: either as a continuous value or as a classification problem. The attributes of the dataset are as below:

Name	Data Type	Measure	Description
Sex	nominal	M, F, and I	(infant)
Length	continuous	mm	Longest shell measurement
Diameter	continuous	mm	perpendicular to length
Height	continuous	mm	with meat in shell
Whole weight	continuous	grams	whole abalone
Shucked weight	continuous	grams	weight of meat
Viscera weight	continuous	grams	gut weight (after bleeding)
Shell weight	continuous	grams	after being dried
Rings	integer		+1.5 gives the age in years

There are 29 Rings labels to predict are: $1, 2, \cdots, 29$

Number of instances/examples: 4178

- `abalone_train_*.csv` : 3342 for train and validation.
- `abalone_test.csv`: 836